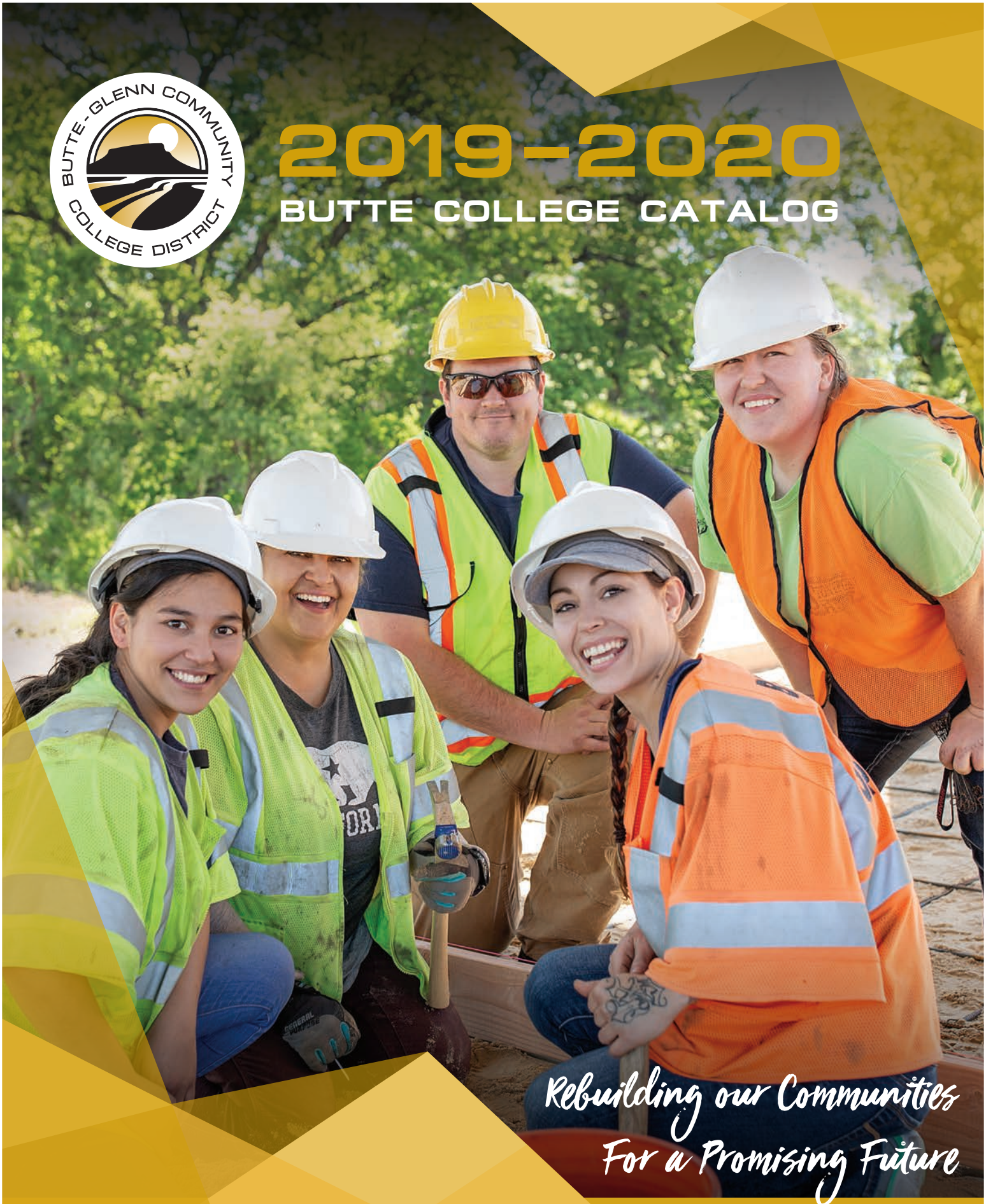
2019–2020

BUTTE COLLEGE CATALOG



Rebuilding our Communities
For a Promising Future

WWW.BUTTE.EDU

Butte College

A Public Community College
of the Butte-Glenn Community College District

www.butte.edu
Information (530) 895-2511

Main Campus • 3536 Butte Campus Drive, Oroville, CA 95965
Chico Center • 2320 Forest Avenue, Chico, CA 95928
Skyway Center • 2480 Notre Dame, Chico, CA 95928
Cosmetology & Barbering Center • 2201 Pillsbury Road, Suite 170, Chico , CA 95926
Glenn County Center • 604 East Walker Street, Orland CA 95963

Information about course offerings, fees, refunds, and college policies published in this Catalog is subject to change without prior notice. Any updates to policy, enrollment, or fee information can be found on the web at **www.butte.edu** and in the online Semester Class Schedule prior to registration each term at **www.butte.edu/schedule**

A Message From The President

Welcome! Whether this is your first experience in higher education or you are a returning student, you made a great choice in Butte College.

This catalog is your guide to being a successful college student. You will find information on how to enroll in classes and how to get financial assistance. The policies and procedures that impact students are here as well as the resources available to you. In addition, every degree and certificate program is listed with a full description of the courses you need to complete it. You will also find information on how to get involved in a variety of extracurricular and leadership opportunities.

For more than 50 years Butte College has offered exceptional programs and services for our local communities. From its humble beginning in Durham, Butte College has grown into a comprehensive college offering 180 degree and certificate programs to 12,000 students a semester. We are proud to have touched the lives of over 500,000 students in our fifty year history.

Did you know:

- We offer 31 Associate Degrees for Transfer that guarantee students entry into a CSU upon completion
- Our career and technical programs offer hands-on learning that leads to high licensure pass rates and job placement rates in local businesses
- We offer 40 campus clubs and 13 athletic teams for students to join

All of us – faculty, staff, and administrators – are here to provide you with a learning environment that is equitable, challenging, and supportive. We strive to remove barriers to your learning and to inspire you to reach your potential. We are here to help you every step of the way.

I wish you the best of luck as you take this next step in your educational journey.

Samia Yaqub, Ph.D.
Superintendent/President

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About Butte College

Butte College serves approximately 17,000 students a year and is an accredited community college located just 75 miles north of Sacramento. Butte College offers a quality education and over 180 degree and certificate programs. Students can earn associate's degrees, train for career options, or take general education classes to transfer to a CSU, UC, or private university. Butte College has the highest transfer rate to CSU, Chico, and many of our alumni have successful careers in fire, nursing, law enforcement, welding, business, computer science, heavy equipment and more. The College also offers degrees with guaranteed transfer to California State Universities—with 30 Associate in Arts for Transfer and Associate in Science for Transfer degrees.

The College's Mission Statement

Butte College is a student-centered learning institution which provides quality education and support services, that are continuously evaluated and improved, to prepare students to be productive members of a diverse, sustainable, and ever-changing global society. We provide career and transfer pathways for students to become life-long learners and critical thinkers through the mastery of basic skills, workforce training, and the achievement of degrees and certificates.

Butte College Foundation

The Butte College Foundation is a non-profit, 501C3 charitable organization and serves as the fundraising arm for Butte College. The Foundation is governed by a volunteer board of directors who work throughout the year to develop partnerships and resources to benefit students at Butte College through scholarships, grants, and loans. Donations to the Foundation help support Butte College students and programs. Scholarships can be named in honor of a loved one to leave a lasting legacy. For more information, contact the Foundation at (530) 895-2359 or visit **www.butte.edu/foundation**.

Butte College - A Leader in Sustainability

The College has a long history of sustainability. Resting on 928 acres, the College is designated a wildlife refuge and serves as an outdoor laboratory for college programs. Butte College is a national leader for community colleges in sustainability due to student engagement both at the College and in the community, infusion of sustainability into the curriculum, sustainable land use management, renewable energy and energy efficiency.

Butte College has integrated sustainability in the following ways:

- Offers a Sustainability Studies Certificate Program;
- Operates the largest bus transportation system of any community college in California;
- The College produces 90 percent of its annual electrical needs for both the Main Campus and Chico Campus through the use of 25,436 solar panels with a generating capacity of 4.657 megawatts;
- Leadership in Energy and Environmental Design (LEED) Gold certification of the Arts Building and Student and General Services Building by the US Green Building Council;
- Mathematics, Engineering, Science Achievement (MESA) students work as interns on a Biofiltration Wetland Educational Living Laboratory (BWELL) Project;
- Roughly 79 percent of the waste stream is recycled;
- The Agriculture Department gained organic certification on 26 acres.

Our Vision

Butte College serves our communities by inspiring diverse learners to reach intellectual, cultural, social, economic, and personal success.

The College's Advisory Committees

To ensure that Career Education programs respond to the needs of business, industry, and government, the Butte-Glenn Community College District establishes program advisory committees whose members are industry leaders in occupational areas related to the College's programs.

Individual program advisory committees provide valued advice related to:

- Curriculum
- Facilities and equipment
- Job market information
- Evaluation of the performance of students completing the requirements for any given program

A campus Career Education General Advisory Committee consults with the campus on the broader issues related to the Butte College vocational mission.

Accreditation

Butte College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, **https://www.accjc.org** (415) 506-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation, the U.S. Department of Education, and the California Community Colleges Chancellor's Office **http://www.cccco.edu** (916) 445-8752.

Butte College is accredited, licensed, and/or approved by:

- Commission on Accreditation of Allied Health Education Programs **http://www.caahep.org** (727) 210-2350;
- California Department of Public Health **http://www.cdph.ca.gov** (916) 558-1784;
- Board of Registered Nursing **http://www.rn.ca.gov** (916) 322-3350;
- Board of Vocational Nursing and Psychiatric Technicians **http://www.bvnpt.ca.gov** (916) 263-7800;
- Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP) **http://www.coaemsp.org** (214) 703-8445;
- Commission on Accreditation for Respiratory Care **http://www.coarc.com** (817) 283-2835;
- Commission on Peace Officer Standards and Training **https://www.post.ca.gov** (916) 227-3909;
- Office of the State Fire Marshal **http://osfm.fire.ca.gov** (916) 324-6359;
- U.S. Immigration and Customs Enforcement - Student and Exchange Visitor Program **http://www.ice.gov/sevis** 703) 603-3400;
- National Automotive Technician Education Foundation (NATEF) **http://www.natef.org** (703) 669-6650;
- Honda Professional Automotive Career Training (PACT) **https://www.hondapact.com/**
- Board of Barbering and Cosmetology **http://barbercosmo.ca.gov** (800) 952-5210;
- California Community College Athletic Association **http://www.cccaasports.org** (916) 444-1600;

Non-Discrimination

Butte-Glenn Community College District does not permit discrimination or harassment in its programs or activities as stated in our Non-Discrimination statement on page 34 of this catalog.

2019-2020 Academic Calendar

Fall Semester 2019 • August 26 - December 20

*(**Dates are subject to change**. See Class Schedule for specific dates.)*

Fall Class Schedule online at www.butte.edu/schedule ..... February 2019
Registration appointments distributed in MyBC ..... March
Registration begins ..... March
Instruction begins ..... August 26
Legal Holiday ..... September 2
Last day to:
- Pay fees ..... 7 days from enrollment
- Add courses ..... September 5
- Drop and receive a refund ..... September 5
- Drop w/o a "W" appearing on transcript ..... September 5
- Submit P/NP, Audit, and Credit by Exam petitions ..... September 26
- Withdraw with a "W" w/o instructor's signature ..... October 17

Legal Holiday ..... November 11
Deadline to apply for graduation ..... November 26
Thanksgiving Recess ..... November 28, 29
Non-instructional Saturday ..... November 30
Last day of instruction ..... December 13
Final examinations ..... December 16–20

Winter Session 2020 • January 6 – January 24

*(**Dates are subject to change**. See Class Schedule for specific dates. **Drop dates vary by course.** See course syllabus for exact dates.)*

Winter/Spring Class Schedule online at www.butte.edu/schedule ..... October 2019
Registration appointments distributed in MyBC ..... October
Registration begins ..... November
Instruction begins ..... January 6
Last day to:
- Pay fees ..... 7 days from enrollment
- Add courses ..... January 7
- Drop and receive a refund ..... January 6
- Drop w/o a "W" appearing on transcript ..... January 7
- Submit P/NP, Audit, and Credit by Exam petitions ..... January 10
- Withdraw with a "W" w/o instructor's signature ..... January 13

Deadline to apply for graduation ..... January 24
Last day of instruction ..... January 24

Spring Semester 2020 • January 27 – May 29

*(**Dates are subject to change.** See Class Schedule for specific dates.)*

Winter/Spring Class Schedule online at www.butte.edu/schedule ..... October 2019
Registration appointments distributed in MyBC ..... October
Registration begins ..... November
Instruction begins ..... January 27
Last day to:
- Pay fees ..... 7 days from enrollment
- Add courses ..... February 6
- Drop and receive a refund ..... February 6
- Drop w/o a "W" appearing on transcript ..... February 6
- Submit P/NP, Audit, and Credit by Exam petitions ..... February 27
- Withdraw with a "W" w/o instructor's signature ..... March 26

Legal Holiday ..... February 14, 17
Non-instructional Saturday ..... February 15
Spring Break ..... March 16–20
Deadline to apply for graduation ..... March 26
Last day of instruction ..... May 22
Final examinations ..... May 26–29
Graduation ceremony ..... May 29

Summer Session 2020 • TBA

Summer/Fall Class Schedule online at www.butte.edu ..... March 2020
Deadline to apply for graduation ..... July 2020

Butte College Main Campus

3536 Butte Campus Drive, Oroville

(530) 895-2511, www.butte.edu *(Map to Main Campus, page 278)*

The Butte College Main Campus rests on a 928 acre designated wildlife refuge, making it one of the largest community college campuses in the state. Students can earn a certificate, degree, or transfer to a university or other institution.

Butte College offers a quality education at an affordable price. With state-of-the-art facilities, small class sizes, low tuition, and one of the largest bus transportation systems for any college in the state—our college is the perfect place to start your career pathway! We offer over 180 degree and certificate programs with 30 Associate in Arts for Transfer and Associate in Science for Transfer degrees. In fact, Butte College has the highest transfer rate to CSU, Chico!

Students can take advantage of key student services including: Career Counseling, Job Placement, Counseling and Advising, Transfer Counseling Center, Extended Opportunity Program and Services, Disabled Student Programs and Services, Sustainability Resource Center, Office of Veterans Services, Culture & Community Center, Safe Place and Wellness Program, Student Health Center, Center for Academic Success, and more than 40 student clubs!

Butte College offers low tuition and financial aid to those that qualify. Federal and state financial assistance such as grants, work study, loans, veteran services, and scholarships are available through Financial Aid, Veteran Services, and the Foundation Office.

Chico Center

2320 Forest Avenue, Chico

(530) 895-1352 *(Map to Chico Center, page 277)*

The Chico Center offers day and evening courses for the community. Classes are offered in communication studies, English, music, political science, history, philosophy, geography, business, computers, accounting, foreign languages and more.

The Chico Center offers a broad range of student services including admissions, registration, Disabled Student Programs and Services (DSPS), financial aid, job placement (by appointment), Roadrunner Hub, campus store, and academic, career, EOPS, general, transfer and mental health counseling. The Chico Center Library and Support Services Center offers test proctoring, media/technical support in the classroom or labs for students, faculty and staff, textbook circulation, reference librarians, smart group study rooms, and assisted technology stations for DSPS students. Center for Academic Success (CAS) tutoring with computer lab is also offered. The Student Lounge is available for student IDs and a variety of student activities and events.

Cosmetology and Barbering

2201 Pillsbury Road, Suite 170, Chico

(530) 895-2202 *(Map to BCCB, page 277)*

The Butte College Cosmetology and Barbering Center is a new facility located in Chico and offers a 1680 hour course of study which can be completed in approximately 42 weeks. Successful completion will enable the student to meet the 1600 hour state licensing requirement and prepare them for an abundance of careers in the field. Seven six-week sessions, are offered Monday through Friday, and allow students to gain the necessary hours for a Certificate of Achievement in Cosmetology. The training received prepares students to pass the state exam, which includes written and hands-on testing.

Skyway Center

2480 Notre Dame, Chico

(530) 895-2511 *(Map to Skyway Center, page 277)*

The Butte College Skyway Center offers the College's automotive technology program along with economic workforce development programs, including: The Training Place, the Health Workforce Initiative, Foster Kinship Care Education Program, and the Small Business Development Center (SBDC).

Within the Skyway Center, the automotive program offers a shop lab with classrooms and a computer lab to offer instruction in automotive industry sustainable practices. A new high school automotive technology program has been developed in partnership with the Butte County Regional Occupational Program (ROP) to provide career pathways for high school students.

The College's Economic Workforce Development Program serves the business community. The Training Place offers employee training to all businesses in areas including: Business Skills, MS Office, Customer Service and Sales, Leadership, Lean Continuous Improvement, Human Resources, Information Communication Technology, Advanced Manufacturing, Job Instruction and Safety. The Health Workforce Initiative provides education and training programs to meet emerging demands for health care industry workers. The Butte College Small Business Development Center offers one-stop business management assistance through counseling, entrepreneur training, and guidance to small business owners and entrepreneurs in Butte, Glenn and Tehama Counties. The Foster Kinship Care Education Program provides workshops for parents and care providers on discipline, health, community resources, guardianship, self-esteem and other topics. Training programs and clinics are held to help those interested in becoming foster parents or guardians.

Glenn County Center

604 East Walker Street, Orland

(530) 895-2429 *(Map to Glenn County Center, page 277)*

The Butte College Glenn County Center is located in Orland, offering day and evening courses for the Glenn County area including the communities of Orland, Willows, and Hamilton City. A variety of course offerings are available, including an extensive list of general education and transfer courses. Visit our website at **www.butte.edu/glenncenter**.

Classes are held from 8 a.m. to 9:30 p.m. with classes also offered at other locations within the county. The Glenn County Center provides a broad range of student services including admissions, registration, assessment, counseling, orientation, financial aid, academic workshops, and test proctoring. An open computer lab, lending library, semester start bookstore, and Student Life Lounge are also available for students. Center for Academic Success (CAS) tutoring, computers, and free printing is also offered.

Public transportation to the Glenn County Center is available through Glenn Ride Transit. Currently enrolled students are eligible for free Glenn Ride bus passes. View the Glenn Ride schedule online at **www.countyofglenn.net/transportation** or call 1-888-800-RIDE (7433).

Educational Opportunities

General Education, Career Programs, and Transfer Majors

Butte College offers students a variety of educational options, ranging from general and special interest courses, complete career education programs which prepare students for a career upon graduation, associate degrees for transfer and local degrees which allow students to complete their general education and lower-division major requirements before transferring to a university. Classes are offered at the Main Campus, as well as at locations in several communities throughout the Butte-Glenn Community College District. Upon successful completion of chosen programs, the College may award one of the following: Associate Degree for Transfer, Associate Degree, Certificate of Achievement, or a Certificate in a specialized field.

Online Classes and Services

Butte College provides a variety of online courses that offer convenience and flexibility in the pursuit of educational goals. For more information on Distance Education courses, visit **www.butte.edu/online** or call (530) 879-4061.

Study Abroad

Butte College's Study Abroad Program offers opportunities to live and study in exciting international destinations. Check us out on our website at **www.butte.edu/studyabroad** to find out more, to download applications, and to learn about financial aid availability. Additional information can be obtained by calling the office of Study Abroad at (530) 895-2471.

Workforce Development
The Training Place

Mission

Responding to community needs by providing performance improvement solutions resulting in economic development, sustainability and growth.

The Training Place assists businesses to develop employee talent with over 250 industry driven training programs. Trainers hold credentialed certifications with learning partners including: Amatrol Manufacturing Training Systems, TPC Trainco, Achieve Global International, Development Dimensions International (DDI), Cloudwise Academy, Ed2Go, Salesforce, Training Within Industry (TWI), and Occupational Safety and Health Administration (OSHA).

Training is delivered at employer locations and professional training facilities located at the Butte College Skyway Center on Notre Dame Boulevard in Chico.

Visit The Training Place website in the Business Section at **www.butte.edu/thetrainingplace/**. Call (530) 895-9015 or email us at **thetrainingplace@butte.edu** for more information.

Attending Butte College

Admissions

Butte College admits all high school graduates or the equivalent, and any persons 18 years of age or over who are capable of benefiting from the instruction offered. High school non-graduates who are over 18 years of age shall be admitted provisionally. Other K-12 students who have the permission of their principal, counselor, and a parent/guardian, may be eligible for admission. Students who meet the eligibility requirements for admission must submit an Application for Admission on-line through CCC Apply prior to registration. K-12 students must also complete and submit a Concurrent Enrollment Permission Form to the Main Campus Welcome Center. Forms are available at the high school counseling offices or online at **www.butte.edu/highschool**.

Open Enrollment Policy

It is the policy of this District that, unless specifically exempted by statute, every course, course section and class, in which attendance is reported for state aid, wherever offered and maintained by the District, is fully open to enrollment and participation by any person who has been admitted to the College and who meets such prerequisites as may be established pursuant to regulations contained in Article 1 (commencing with Section 55000) of Subchapter 1 of Chapter 6 of Division 6 of Title 5 of the California Code of Regulations.

Enrollment Restrictions

New College Students and New Transfer-In Students

New College Students and New Transfer-In Students have enrollment restrictions until they have completed their Career and Academic Profile, attended an orientation session, and have met with a counselor to create an education plan. *New College Students* must complete an in-person orientation which consists of a campus tour, meeting with a counselor and developing an education plan, and registering for courses. *New Transfer-In Students* must complete **either** an in-person orientation **or** an online orientation. New Transfer-In Students who choose to complete an in-person orientation will register for courses during their orientation. New Transfer-In Students who choose to complete an online orientation will register online through their MyBC account and must meet with a counselor to complete an education plan during their first term of enrollment. See the *Quick Guide to Butte College Admissions 6 Steps to Enrollment* for details. All applicants are urged to complete applications as early as possible.

Returning Students

Returning students are required to submit a new application after a break in enrollment at Butte College of one year or more unless a planned educational leave is on file. Former Butte College students who are returning to the College should contact (530) 895-2511 for more information on the re-entry process. See the *Quick Guide to Butte College Admissions 5 Steps to Enrollment* for details.

Student Classifications

New College Student: A student who is attending Butte College for the first time OR is attending Butte College for the first time and has completed fewer than 24 units at a college other than Butte College. A student who has taken courses at Butte College while concurrently attending a K-12 school and has since graduated high school is still considered a new student.

New Transfer-In Student: A student who is attending Butte College for the first time and has completed 24 or more units with a minimum GPA of 2.0 at a college other than Butte College.

Continuing Student: A student who has attended the preceding fall or spring term. Continuing students receive priority registration times typically in March or April and October or November.

Returning Student: A student who has previously completed course work at Butte College and is returning after a lapse of time or enrollment at another college. Students returning to Butte who have not attended in one year or more must submit a new application.

Provisional: A first-time student enrolled full-time who is 18 years of age or older, but who does not possess a high school diploma or equivalent.

K-12: A K-12 student is under 18 and has not graduated high school. To take classes, the student must have a Concurrent Enrollment Permission Form on file by the deadline. K-12 students may not enroll in more than 11 credit units for fall and spring semesters, 10 units summer session and 4 units in winter session. For additional information please contact the Welcome Center at (530) 895-2511, or visit us at **www.butte.edu/highschool**.

Part-time: A student enrolled in fewer than 12 semester units. For fee purposes, part-time constitutes fewer than 6 credit units.

Full-time: A student enrolled in 12 or more semester units. For fee purposes, full-time constitutes 6 or more credit units.

Quick Guide to Butte College Admission
5 Steps to Enrollment

What Type of Student Are You?

NEW COLLEGE STUDENT ... You are a new college student if you are attending Butte College for the first time OR are attending Butte College for the first time and have completed fewer than 24 units at a college other than Butte. If you have taken courses at Butte College while in high school and have since graduated, you are considered a new college student. **Complete Steps 1-5.**

NEW TRANSFER-IN ..... You are a new transfer-in student if you are attending Butte College for the first time and have completed 24 or more units with a 2.0+ GPA at a college other than Butte. **Complete Steps 1-5.**

RETURNING..... You are a returning student if you previously completed course work at Butte College and are returning after a lapse of time or enrollment at another college. **Complete Steps 2, 3, and 5**. Students who have not attended in one year or longer must **Complete Steps 1, 2, 3, and 5.**

CONTINUING..... You are a continuing student if you attended the preceding fall or spring term. Continuing students receive priority registration times in April and November. **Complete Step 5.**

K-12 ..... You are a K-12 student if you are under 18 and have not graduated high school. To take classes you must have a Concurrent Enrollment Permission form on file by the deadline. **Complete Steps 1 and 5**

1. APPLY FOR ADMISSION

Apply online at **www.butte.edu**. Request and send your official transcripts from all previously attended colleges to Butte College Admissions and Records. If you need assistance call (530) 895-2511.

2. APPLY FOR FINANCIAL AID

Complete the **Free Application for Federal Student Aid (FAFSA)** online at **www.studentaid.ed.gov**, using the Butte College **Federal School Code 006972**. Completing a FAFSA before you enroll may exempt you from the requirement to pay fees within seven days. Students who have an undocumented status: please complete the **CA Dream Act Application** online at **https://dream.csac.ca.gov**. First-time, full-time students who are California residents or AB540 may be eligible to receive the **Butte College Promise Scholarship (BCPS)**. The BCPS pays all tuition and student service fees for the student's first academic year. Visit **www.butte.edu/financialaid** for more information.

3. CONTACT CAREER AND ACADEMIC ASSESSMENT CENTER

All students need to complete a Career and Academic Profile prior to attending Orientation. This will assist students with identifying a program of study, English and Math recommendations, and course prerequisites. The Career and Academic Profile can be completed online or in-person. Contact the Career and Academic Assessment Center at (530) 895-2511 or visit **www.butte.edu/assessment** for more information.

4. SCHEDULE ORIENTATION

Once you have contacted the Career and Academic Assessment Center, visit the Orientation website at **www.butte.edu/orientation** on or after **May 6, 2019** to schedule your session. In-person orientation will consist of meeting with counselors, registering for classes, and taking a campus tour.

- New College Students MUST attend and in-person Orientation.
- New Transfer-In Students MUST complete either an online Orientation OR an in-person Orientation.

5. REGISTER FOR CLASSES AND PAY

Students have 7 days to pay from the time of registration or they will be dropped from one or more classes. Completing a FAFSA before you register may exempt you from the requirement to pay fees within 7 days. For more information visit: **www.butte.edu/7days**

- New college students will register during their Orientation.
- New transfer-in students who choose to complete an in-person orientation will register during their Orientation. Those who choose to complete an on-line orientation can begin registering through their MyBC account on June 3, 2019.
- If you are not required to attend orientation then see the class schedule, MyBC or **www.butte.edu/admissions** and click on the "Registration" tab.

Questions about Admissions, Career and Academic Profile (CAP), Registration, Financial Aid, Orientation, or Counseling call (530) 895-2511

Enrollment Policies and Procedures

Application for Admission

All students can submit an Application for Admission to the Office of Admissions and Records online at **www.butte.edu by clicking on the "Apply Now" button.** All New College Students, New Transfer-In Students, and students who took Butte College classes as K-12 students and have since graduated from high school are required to submit an Application for Admission. Returning Students who have not attended Butte in one year or longer are required to submit an Application for Admission. Submitting an application does not require a student to register for classes.

Paper Applications for Admission are available at the Main Campus, Chico and Glenn County Centers. Students can mail completed paper applications to: Butte College Office of Admissions and Records, 3536 Butte Campus Drive, Oroville, CA 95965 or personally deliver paper applications to the Main Campus, Chico or Glenn County Center's Office of Admissions and Records.

When an online application has been received, New Students are sent:

1. An email indicating receipt of application.
2. A Welcome Letter with materials from the Office of Admissions and Records outlining pre-enrollment activities. Students who do not receive this information should contact the Welcome Center at (530) 895-2511.

Students who submit paper applications must contact the Assessment and Orientation Offices through (530) 895-2511 for information on pre-enrollment activities.

Career and Academic Profile (CAP)

All students who attend Butte College are required to complete the Career and Academic Profile (CA) tool prior to enrolling in classes. This includes identifying a program of study and academic goal and placement into English and Math courses required for your academic program. With a profile of a student's past academic history and perception of their skills, counselors can suggest courses and supports where, with effort, academic achievement is likely. Using the Profile, counselors can help students meet their vocational and educational goals.

The CAP tool can be completed online at **www.butte.edu/assessmen**t or in a walk-in appointment. It is recommended that students who have been out of high school for less than 10 years have a high school transcript available when completing the CAP tool. A guided self-placement option will be available for students who have been out of high school for more than 10 years or have not completed high school in the United States.

Students will receive their Profile by email after completing this process. Profile results are also available through the Career and Academic Assessment Center, or on the web at **www.butte.edu/mybc**, login and select "WebAdvisor." For more information, call the Career and Academic Assessment Center at (530) 895-2511.

English and Math Placement Calculations

English Placement Calculations

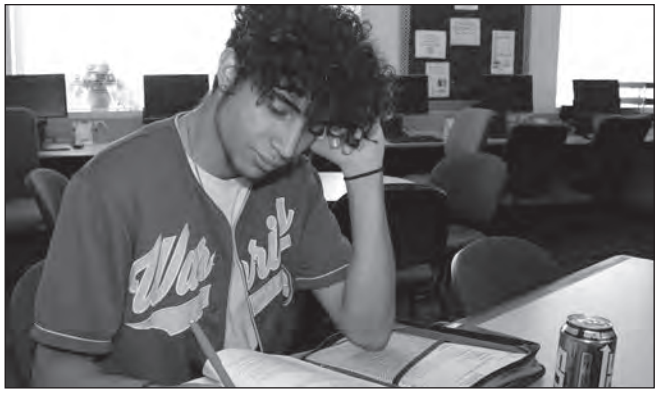
High School Performance Metrics	Butte College English Placement Calculations
HS GPA: 2.6 and above	ENGL 2 – Reading and Composition
HS GPA: above 1.9 and below 2.6	ENGL 2 or ENGL 3 - Reading and Composition (w/support) English 3 is recommended for students with a GPA above 1.9 and below 2.6 who have not passed a high school English course.
HS GPA: 1.9 and below	ENGL 2 or ENGL 3 - Reading and Composition (w/support) ENGL 3 is strongly recommended for students with a GPA below 1.9

Math Placement Calculations

High School Performance Metrics	Butte College Math Placement Calculations
Passed Pre-calculus with a "C" or better	MATH 4, 5, 11, 12, 13, 18, 30
Passed Algebra 2 or Integrated Math 3 with a "C" or better	MATH 4, 5, 11, 12, 13, 18, 20, 26
Did not pass Algebra 2 or Integrated Math 3 with a "C" or better	MATH 4, 5, 11, 18, 116 or 124 MATH 116 or 124 is required before taking any of the Business or STEM transfer level courses: 12, 13, 20, 26

AB 705

New legislation allows students to register directly into transfer level coursework. Visit the AB 705 website for more details: **www.butte.edu/AB705**



START Program (Career and Academic Profile, Orientation, and Counseling)

All new students to Butte College are required to participate in pre-enrollment activities before they are allowed to register for non-exempt classes (the Career and Academic Profile is required for English and math courses). Presented by Student Services, the Student access, Retention and Transition (START) Program provides new students with the information and support necessary to ensure a smooth transition into Butte College. After submitting an application, new students receive packets from the Admissions Office that directs them to contact the Career and Academic Assessment Center and Orientation for scheduling information.

The START Program provides students with:

1. An orientation to college services, programs, policies and procedures;
2. A tour of the campus;
3. Tips on classroom etiquette and instructor expectations;
4. Pre-enrollment counseling/advising to assist in course selection;
5. Registration.

Exemptions to START

The following may exempt students from one or more components of the Orientation and START programs:

1. Concurrent enrollment in elementary school, junior or senior high school.
2. Enrollment in performance, activity, or noncredit courses only. See the Exempt Class list.
3. Are enrolling in one or two non-exempt classes and do not intend to obtain a certificate or degree. Call (530) 895-2511 for enrollment information.

*These exemptions require verification prior to registration. Please contact the Orientation Office.

Registering for Classes

Registration dates, times and instructions on how to register for all students are available on page iv of the Class Schedule at **www.butte.edu** through the “Search for Classes” link or the Office of Admissions and Records website at **www.butte.edu/admissions** through the “Registration” link. All New College Students and New Transfer-In Students who choose to attend an in-person orientation register during their orientation session. New Transfer-In Students who choose to complete an online orientation, Returning Students, K-12 Students and all other students register on specific dates.

Continuing Students register by appointment during the priority registration period which occurs in March or April for summer and fall terms and October or November for winter and spring terms. Priority registration dates and times are assigned to Continuing Students according to the guidelines set forth in the California Code of Regulations, Title 5, Section 58108. Priority registration appointments are distributed to Continuing Students through their MyBC accounts in February or March for summer and fall registration periods and October or November for winter and spring registration periods.

Continuing and New Students may lose registration priority if:

- They earn more than 100 units at Butte College.
- They are on academic probation for 2 or more terms.
- They do not complete Orientation, Assessment, and work with a counselor to create an Educational Plan.

Students register online through their MyBC accounts. New Students receive usernames, passwords and instruction for accessing and using their MyBC accounts via e-mail, shortly after being admitted, and during their in-person orientation session. Students who do not attend an in-person orientation session must contact Student Technical Support at (530) 895-2925 Monday through Thursday 8 a.m. to 5 p.m. and Fridays 8 a.m. to 12 p.m. to receive their usernames and passwords. Computer labs are available at the Main Campus, Chico and Glenn County Centers free of charge for students who need access to computers. Students can call General Information at (530) 895-2511 Monday through Thursday from 8 a.m. to 5 p.m. and Fridays from 8 a.m. to 12 p.m. for information on computer lab locations and hours of operation or assistance with online registration.

Waitlists

Students attempting to register online into classes that have closed will receive a message providing them with an opportunity to place themselves on the waitlist for these classes. Students will automatically be enrolled from a waitlist when space becomes available and will receive an email notification to their Butte College email in their MyBC account. Students have 7 days to pay from the date of enrollment and should check email daily if waitlisted for a class. Once classes begin, instructors sign add cards according to waitlist ranking. Students who are still on a waitlist when a class begins should attend the first day of the class with an add card to obtain instructor approval to enroll. Students must present signed add cards to the Office of Admissions and Records to enroll in the class.

Financial Aid students: waitlisted classes are not counted as enrollment for financial aid units. Contact Financial Aid for more details at (530) 895-2311.

Choosing Alternates for Closed or Cancelled Classes

Students may find some courses may be closed without a waitlist option or cancelled when they attempt to register into them. Students should be prepared to make alternative course choices. Counselors are available to assist students in planning a full course schedule appropriate to the student's goals. Counseling services are available at Main Campus, Chico and Glenn County Centers. Students can call General Information at (530) 895-2511 to contact the Counseling and Advising Center and schedule an appointment.

Adding Classes After the Semester Starts

During the first two weeks of fall and spring terms, students may add themselves to regular term classes which still have space available using their MyBC account or by calling (530) 895-2511 for assistance. To add classes, students must have already submitted an Application for Admission, received a Butte College ID number and completed any necessary pre-enrollment activities.

Special Registration Procedures for Certain Programs

Special procedures are required for a small number of Butte College's vocational programs. Programs with special registration procedures and requirements include: Automotive Technology, Cosmetology, Law Enforcement / Fish and Wildlife / State Parks, Fire, Paramedic, Registered Nursing, Vocational Nursing, Nursing Assistant, Respiratory Care, and Welding. Students with questions about these programs should contact the specific department or the Counseling and Advising Center to discuss requirements.

Residency Requirements

As a public community college under California law, Butte College is bound by certain legal requirements pertaining to residence that must be observed. Students reaching their 19th birthday are deemed adults and may establish their own residence.

California Residents

Residency regulations stipulate that in order to be considered a California resident the student may be required to present evidence of physical presence in California for at least one year and one day before the start of the semester. Regulations further state the student must also demonstrate clear intent to make California their home for other than a temporary purpose.

Nonresident Students

All students who indicated they have resided out of California in the two years previous to applying for admission and wish to be considered for residency must complete a Residency Re-evaluation Form available from the Admissions and Records Office. Students are required to meet the residency requirements as stated in the above paragraph as well as requirements for financial independence as described in Education Code 68044 and on the Residency Re-evaluation Form. Any student, other than a nonimmigrant alien (with the exception of a T or U visa holder), may be entitled to an exemption of the nonresident fees by meeting the requirements of AB 540, Nonresident California Tuition Exemption. Contact the Residency Technician at (530) 895-2546 or the website, **www.butte.edu/admissions** for more information.

Residency Reclassification

A student previously classified as a nonresident may be reclassified as of the residency determination date. A residency determination date is that day immediately preceding the opening day of instruction for any session during which the student proposes to attend. To request residency reclassification, a student must complete and submit a Residency Reevaluation Form and required documentation to the Office of Admissions and Records prior to the residency determination deadline. Extenuating circumstances may be considered in cases where a student failed to petition for reclassification prior to the residency determination date. In no case may a student receive a nonresident tuition refund after the eighth week of the Fall or Spring semester. Students can find detailed information on residency requirements, including California Education Code and Title 5 references, in Butte College Board Policy 5015 at: **http://www.butte.edu/community/getting_involved/contacts/trustees/policies.html**.

International Students

Under federal law, the College is also authorized to enroll nonimmigrant, international students. All nonresident and international students are charged a nonresident fee in addition to other fees. Once the free application is submitted, along with other required documents listed online at **www.butte.edu/international**, the applicant will hear from an admissions coordinator to confirm receipt of the application and to offer assistance through the remainder of the application process.

Student Records

The College maintains the following types of student records: academic achievement and aptitude test results, counseling information, copies of correspondence, residency information, admission and enrollment data, copies of petitions and applications, certain medical records, some financial records, and certain information provided by Disabled Student Services. Student medical records are maintained by the Director of the Student Health Clinic, and student financial aid records are maintained by the Financial Aid Director. All other records are maintained by the Director of the Office of Admissions and Records and the Vice President of Student Services.

Access to Records

Officials and employees who may access student records include: administrative personnel, confidential and supervisory personnel acting on behalf of their administrators; counselors working with their counselees; instructors with respect to their students; and certain classified employees in carrying out the responsibilities of their job descriptions. Additionally, members of certain groups, including the Academic Council and Judicial Council, may access student records in the performance of their duties while acting upon requests of students. Such officials and employees must have legitimate educational interest in the student record, including researching data, resolving problems, and ensuring that correct and accurate information is maintained. Students have the right to access their records and challenge their content, as provided in Board Policy 5040. Copies of this policy are available in the Student Services Office and the Superintendent/President's Office. The log of persons and organizations requesting access to student records is maintained in the Office of Admissions and Records. If a pupil has attained the age of 18 years or is attending an institution of postsecondary education (including K-12 students simultaneously enrolled in Butte College Courses), the right to access records shall thereafter only be required of, and accorded to, the pupil.

Release of "Directory Information"

The following "Directory Information" may be released without student consent: student's name, participation in officially recognized activities and sports, weight and height of members of athletic teams, degrees and awards received. The college also reserves the right to include information about expulsion on student transcripts. Students who do not want directory information released must inform the Office of Admissions and Records in writing on the appropriate form at the beginning of each term the information is to be withheld.

Transcripts

Official transcripts of previous academic work in college are required from all students. These transcripts become part of the student's permanent file and will not be released or forwarded to other institutions. No previous academic work may be disregarded. Students should request that their former school(s) send an official transcript to Butte College. Any copy other than an official transcript is unacceptable. Students should be aware that schools may charge a fee to send official transcripts to Butte College. Transcript request forms are available at the Office of Admissions and Records. Instructions on how to have transcripts sent to other institutions from Butte College are available online at **www.butte.edu/admissions/transcripts.html**.

College Fees

California Community Colleges continue to be the primary entry point for those seeking to obtain associates degrees, transfer to 4-year universities and obtain vocational certificates in pursuing career goals and objectives. As part of the California Community College System, Butte College offers quality education with reasonable costs.

Payments Due 7 Days from the Time of Registration

Students will have 7 days from the time of registration to pay fees or they may be dropped from one or more classes. To avoid being dropped take one of the following steps:

1. Pay fees in full.
2. Students who can show proof of sufficient eligibility for financial assistance will be exempt. Complete a FAFSA or provide proof of other financial assistance (scholarship, GI Bill, patron agreement, etc.) to the Butte College Business Office.
3. Create a fee payment plan online.

Students are responsible for making payment arrangements or providing verification of exemption status. Those who do not pay fees or make arrangements to pay fees may be dropped from one or more classes. Once you have registered you can view payment or exemption status in MyBC. For complete details about these changes and how they may affect you please refer to the information at the following link, **www.butte.edu/services/admissions/7days**.

Waitlists and 7 Days To Pay

Students enrolled into a class from a waitlist have 7 days to pay from the day they are enrolled and could be dropped from one or more courses if outstanding fees are not paid within the 7 day time period. Students on a wait list should check their Butte College email daily to avoid being dropped for non-payment. Students can check their waitlist ranking on their MyBC account through the "Manage my Waitlist" link.

Short-Term and One-Day Class Fee Payments

Fees for short-term or one-day classes are due at the time of registration. Short term classes have irregular drop and withdrawal dates. For short term classes, drop dates for refund eligibility are calculated at 10 percent of the class' duration. Drop dates for refund eligibility for these courses vary. Students should see their instructor for exact drop for refund eligibility and withdrawal dates.

Fee Payments Made by a Patron

In cases where students fees are paid by an outside agency or patron, those students will not be reimbursed if they pay their own fees. After registration, class changes require additional authorization from the Butte College Business Services Office.

Students registering online or via phone:
After registering, students should submit the agency authorization letter to the Butte College Business Services

Office before the drop for non-payment date. If the letter has already been submitted, students should contact the Business Services Office after registering to verify fees are being covered by the agency.

Students registering in-person:
To receive a Patron Voucher, students should bring their authorization letter to the Business Services Office before registering for classes. For complete information, see the Financial Aid section in the Catalog.

Making Payments

By phone - Call (530) 895-2511 to pay over the phone Monday-Thursday, 8 a.m. to 5 p.m., and Friday, 8 a.m. to 12 p.m. with a Visa, MasterCard or check card. Have the credit card number and expiration date ready to give to the operator.

On-line - Pay your fees through your MyBC account with a Visa or MasterCard only, at **www.butte.edu**.

Pay by mail - Pay with a check or money order immediately after registering. Mail payment to: 3536 Butte Campus Drive, Oroville CA 95965. Receipts are mailed upon processing of payment.

In-person - Pay in person with cash, check, or Visa or MasterCard Monday-Thursday, 8 a.m. to 5 p.m., and Friday, 8 a.m. to 12 p.m. at the Main Campus Office of Admissions and Records. To pay at the Chico Center or Glenn County Center, please call ahead of time to determine business hours.

Payment Plan - Log in to MyBC and select "Create a Payment Plan" in Web Advisor. Select the link and follow the instructions.

A $20 per check charge is assessed for all checks drawn against insufficient funds, or if a "stop payment" is issued. Postdated checks are not accepted.

Refunds

Refunds for Dropped Classes

Refunds are approved if a course is dropped prior to the course's refund eligibility date and a refund request is submitted to the Business Services Office or the Office of Admissions and Records at the Main Campus, Chico or Glenn County Centers. To be eligible for refund, a regular term course must be dropped within the first two weeks of spring or fall semesters. Short term classes must be dropped within the first 10 percent of the course's duration to be eligible for refund. Refund eligibility drop dates for winter and summer courses can be found on page i of the Class Schedule at **www.butte.edu/schedule** or through the "Search for Classes" link on the home page. Refunds are processed within 45 days of the refund drop date. Regulations permit districts to retain a maximum $10 from enrollment fees as a refund processing fee.

Refunds for Course Disenrollment

Refunds in the cases of course disenrollment for disciplinary/academic reasons, unauthorized course repetitions, or other emergencies are subject to review. A refund request must be submitted with any appropriate verification for approval.

Refunds for Class Cancellations

Upon submission of a Student Refund Request Form marked "Class Cancelled," a refund of pertinent fees will be granted to the student. The $10 refund processing fee is not assessed for cancelled classes.

Financial Aid Students

Students who receive financial aid funds and who fail to complete all of their classes may not be entitled to a refund. Funds may be returned to the Department of Education Student Financial Aid programs. Students will be notified by letter to their Butte College student email account.

Materials, Supplies, and Equipment Fees

Materials fees are listed below specific class listings in the online Semester Class Schedule. It is the policy of the Board of Trustees to supply each instructor with the supplies, materials and equipment necessary for the implementation of each curriculum outline, and each student with objectives and competencies according to Title V, Section 59404.

The Board may require an Instructional Materials Fee in classes where materials used become one of continuing value to a student outside of the classroom as specified in Education Code Section 76365.

Exceptions to this Policy

1. Where individualized and non-reusable clothing or equipment is required for reasons of safety, health or the protection of school property, the student is requested to provide his or her own clothing or equipment.
2. Where a student prepares a useful item which they are permitted to keep, the student shall pay the District the cost of the materials used.
3. Where the College prepares a useful item which the student is permitted to keep, the student pays the District the cost of the materials used.
4. Where courses such as art, crafts, and shop require special tools and/or supplies, the student is requested to purchase such items.
5. Where equipment or uniforms are required in training for a certain profession and would normally be owned by the student, the student is requested to purchase such items.
6. Where a piece of equipment is so unique that it typically would not be owned either by the College or a student, the student may be asked to rent or purchase such an item.

Each term the cost for instructional supplies is reviewed by the departments in each instructional area. Recommendations for instructional supplies fees are made by program coordinators to the instructional deans. The deans evaluate the recommendations and forward recommended fees to the Vice President of Instruction for review. The Vice President of Instruction notes the fees in the Semester Class Schedule.

Quick Guide to Butte College Fees

Fees are subject to change without notice. Updated fees, program and policy information can be found online in the Semester Class Schedule prior to the start of each semester. It may be necessary to cancel courses or programs without prior notice.

Enrollment Fees

California Resident $46 per unit

Nonresident $265 per unit
See Residency Requirements in this catalog.
Nonresident students pay regular enrollment and service fees in addition to the nonresident fees.

International Student $265 per unit
International students are defined as non-U.S. citizen students. International students pay regular enrollment and service fees in addition to the international student fees.

Miscellaneous Fees

Course Audit Fee $15 per unit
For all students enrolling in a course on an approved audit basis. Students auditing a course may not change their enrollment in that course to receive credit. A student enrolled in classes to receive credit for 10 or more units may audit 3 or fewer units at no charge. No refunds are granted for dropping or withdrawing from audited courses.

Materials, Supplies, and Equipment Fees
Materials fees are listed below specific class listings in the online course schedule.

Textbooks and Supplies
Students purchase their own textbooks and supplies. The Butte College bookstore has all required items for sale. According to the California Student Aid Commission state average, students can expect to spend between $950 and $1,950 for books and supplies in the 2019-2020 academic year.

Service Fees

Transportation Fee — Required

Students enrolled in 6 or more units	$73 per semester
Students enrolled in 1.1 to 5.9 units	$55 per semester
Students enrolled in .1 to 1 unit	$20 per semester
Summer Session *(regardless of unit load)*	$37 per session

(Not charged for winter session)

Health Services Fee — Required*

Fall/Spring Semesters *(regardless of unit load)*	$19 per semester
Summer Session *(regardless of unit load)*	$16 per session

(*Not charged for winter session*)

*Students who depend exclusively upon prayer for healing are exempt from the Health Fee.

Student Activities Fee — Optional*

Fee includes Student Activity card $18 per semester
(*Not charged for winter or summer*)

*Students whose class or classes are at the Chico Center or on the main campus during the daytime will be automatically charged and will be eligible to receive a Student Activity Card and/or current validation sticker. This fee is optional. Exemptions/refund information is available by calling (530) 895-2391 or (530) 895-2428.

Student Rep Fee — Mandatory*

All students $2 per semester

*Students may refuse to pay this fee for religious, political, financial, or moral reasons. For more information call (530) 895-2391 or (530) 895-2428. (*Not charged for winter or summer*)

Student Records Fees

All Replacement Degree Fee $10 per degree
For all students who request a replacement for a degree previously issued.

Transcripts/Enrollment Verification Two copies free
Subsequent transcripts and enrollment verifications $8
On-demand services are available. See Semester Class Schedule for details.
Online transcript requests $8 + $2.40

Technology Fee — Optional*

Fall/Winter/Spring/Summer $20 per semester/session
(regardless of unit load)

*All students will be assessed a $20 fee to help partially defray the costs of student access to campus technology. The fee will be used to help keep student computer labs equipped with current hardware and software as well as to provide high-speed connectivity to the Internet. Exemptions/refund information is available by calling the Call Center at (530) 895-2511.

Financial Aid

Butte College believes the primary responsibility for financing college education lies first with students and their family. When the total resources they can provide do not meet expenses, the College, as a third partner, does all possible to assist so students are not denied an education. A variety of grants, work-study employment, scholarships and loans are available to Butte College students. Determination of student eligibility for financial aid is made without regard to age, sex, race, religion, national origin, or disability.

The Financial Aid Office

Students seeking information regarding financial assistance should check with the Butte College Financial Aid Office, located on the first floor of the Student and Administrative Services Building. Brochures describing financial aid programs are available at this office, the Chico and Glenn County centers, and Butte and Glenn County high schools. The financial aid web pages at **www.butte.edu/financialaid** are kept up to date with the most current information.

To be considered by Butte College for federal and state aid programs, students should complete the Free Application for Federal Student Aid (FAFSA) online at **www.studentaid.ed.gov**. Check **www.butte.edu/financialaid** for eligibility requirements. The application and all requested documents should be submitted to the Financial Aid Office by February 1 for priority consideration; however, applications are accepted throughout the year. Undocumented students, who have signed AB540 affidavits on file with Admissions and Records, are not eligible for federal aid but may apply online for state aid with the California Dream Application, at **www.csac.ca.gov/dream_act.asp**.

Funds are limited and the full financial need of applicants may not be met. All students should be prepared to pay for books and other expenses until their aid comes through. There are also many local, state, and federal scholarships and grant programs which are available from sources outside the college. High school seniors should contact their high school counselors as to the availability and requirements of scholarships offered through community organizations and other resources.

Types of Financial Aid

Several types of financial aid are available to students, including grants, loans, Work-Study, and scholarships. Awarding of funds is based on eligibility, financial need and the amount of funds available. It is important that students define their educational goals as early as possible. Some federal and state aid programs have time limits to their eligibility.

For more information, visit the Financial Aid Office in SAS 160, view our web site at **www.butte.edu/financialaid**, or call (530) 895-2311. Another excellent resource is the Federal Student Aid website, available at **www.studentaid.ed.gov**. It offers free and comprehensive information, advice, and tools to research financial aid.

Grants, Loans, Work Study, and Scholarships

Grants: Awards made to the student's account, which most often do not have to be repaid. Please refer to Return to Title IV section in the Catalog.

Loans: Awards made to the student's account, which must be repaid according to a repayment schedule.

Work-Study: Earnings paid monthly for work a student performs while in school.

Scholarships: Awards made to the student's account, which do not have to be repaid. Scholarships are granted for various reasons, including financial need, grade point average, career goals or residency. A number of scholarships are available through the Butte College Foundation. Call (530) 895-2359 for more information or go to **www.butte.edu/foundation and click on "Scholarships"** for scholarship applications and information.

Fee Waivers

California College Promise Grant (formerly Board of Governors Fee Waiver): Waives an eligible student's enrollment fees (tuition). California residents, eligible AB 540 students, and eligible AB 1899 students may apply. Residency, AB 540 status, and AB 1899 status are determined in Admissions & Records. Students who file a FAFSA or the California Dream Application (only for AB 540 students) will automatically be considered for the CA Promise Grant and do not have to complete a separate application. Students who do not file either may access a Promise Grant application at **www.butte.edu/financialaid**. Click on "**California College Promise Grant**" under **Types of Aid** tab at top of page. Also, see additional information provided in following catalog section.

Butte College Promise Scholarship Program: Covers an eligible first-time, full-time student's enrollment fees (tuition) and service fees. California residents and eligible AB 540 students may qualify. Residency and AB 540 status are determined in Admissions & Records. Students who file a FAFSA or the California Dream Act application (only for AB 540 students) and complete the financial aid process will automatically be considered for the Butte Promise Scholarship and do not have to complete a separate application. Also, see additional information provided in following catalog section.

Remedial Course Fee Waiver: Waives enrollment fees for students enrolled in Butte College remedial courses offered on a California State University system campus. Refer to Education Code Section 76300(e)(2). Call Admissions and Records at (530) 895-2361.

K-12 Fee Waiver: Waives enrollment and service fees for high school Concurrent Enrollment, Dual Enrollment, and College Connection students.

California College Promise Grant

(formerly Board of Governors Fee Waiver (BOGFW)

The California College Promise Grant is open to all students who are California residents or who have an AB 540 affidavit or AB 1899 affidavit on file with Admissions & Records. The Promise Grant program waives the students per unit Enrollment Fees. The student must still pay service fees including health, transportation, student activity, student records, and technology fees, any books or materials fees required. See *Quick Guide to Butte College Fees* for a complete list of fees.

Qualifying for the Promise Grant

Students who meet the following criteria may qualify:

1. The student is a current recipient of TANF/CalWORKs), SSI/SSP, or General Assistance. Dependent students are eligible if TANF/CalWORKs is the only source of parental income, even if the student is not on the CalWORKs grant.
2. The student has financial need, based upon Financial Aid Office review of the FAFSA or CA Dream Application.
3. The student meets the published annual income standards (available online at **www.icanaffordcollege.com**).
4. The student is a victim of trafficking, domestic violence or other serious crimes as defined by AB 1899.

Applying for the Promise Grant

Students interested in applying for the Promise Grant will be automatically considered by completing the Free Application for Federal Student Aid (FAFSA) at **www.studentaid.ed.gov**. Undocumented AB 540 students will be considered for the Promise Grant by submitting the California Dream Application at **www.dream.csac.ca.gov/dream_act.asp**. Students who do not file either may access a PDF version of the Promise Grant application at **www.butte.edu/financialaid.** Click on "**California College Promise Grant**" under **Types of Aid** tab at top of page. Victims of trafficking and domestic violence should complete the PDF version.

Maintaining the Promise Grant Eligibility

Promise Grant eligibility may be lost if the student is placed on academic and/or progress probation according to the guidelines set forth in the California Code of Regulations, Title V, Section 58621. Notifications of Promise Grant status will be sent within 30 days following the end of the term that resulted in the probation. Students may file a Loss of Promise Grant appeal form to have their eligibility restored for the term the loss occurred.

Students may lose the Promise Grant if:

- They are on academic and/or progress probation for 2 consecutive primary terms
- They have less than the 2.0 minimum cumulative GPA
- They have not completed more than 50% of attempted units

For more information on the Promise Grant, view the Financial Aid Office web site at **www.butte.edu/financialaid**. Click on "**California College Pomise Grant**" under **Types of Aid** tab at top of page.

Butte College Promise Scholarship Program

The Butte College Promise Scholarship Program offers up to one academic year of free tuition and fees for all first-time, full-time college students. The Butte College Promise Scholarship will cover any remaining per unit Enrollment Fees and Service Fees for up to two semesters of the students first academic year at Butte College. The student is responsible to pay for any Miscellaneous Fees required which include books, supplies, or materials fees. See *Quick Guide to Butte College Fees* for a complete list of fees.

Qualifying for the Butte College Promise Scholarship

Students who meet the following criteria may qualify:

1. The student must be a California resident or eligible AB 540 student
2. The student must complete the Free Application for Federal Student Aid (FAFSA) or CA Dream Act application (CADA) and any mandatory verification requirements
3. The student must enroll in and complete 12 or more units with at least a 2.0 GPA per term

Applying for the Butte College Promise Scholarship

Student eligibility will be determined by the Financial Aid office after review of student's academic history, residency status, and final determination of any other scholarship or grant eligibility after the student has completed the financial aid process. Once eligibility is determined, tuition and fees will be waived. No direct cash disbursements will occur.

Standards of Satisfactory Academic Progress for Financial Aid Recipients

In accordance with federal regulations, it is the policy of the Butte-Glenn Community College District to provide financial aid assistance to those need-eligible students who are maintaining consistent progress towards an educational objective. Initial financial aid offers are based on need. Continued eligibility requires meeting the criteria for satisfactory academic progress.

Three standards are used for the assessment of Satisfactory Academic Progress: (1) GPA, or grade point average; (2) Pace, or completion rate; and (3) Time Frame, the maximum length of time allowed a student to reach his/her educational objective. "Making SAP" means meeting all three criteria. Student grades are reviewed against these standards at the end of each semester and summer term (if applicable) and are subject to change.

GPA: 'SAP' Qualitative Standard

Students are required to have a 2.0 minimum cumulative GPA. The GPA will include all aided and unaided terms at Butte College as well as work completed at all prior institutions of higher education. Students with fewer than 18 units (all prior coursework included) are required to have a 1.75 minimum cumulative GPA. Remedial units count when calculating GPA for SAP.

PACE: 'SAP' Quantitative Standard

To be eligible for financial aid, a student must be enrolled in a program leading to completion of a transfer major, an Associate of Arts or Associate of Sciences degree, or a Certificate of Achievement. Pace is the rate at which a student completes requirements for their educational goal. Pace is calculated by dividing the number of cumulative units completed by the number of cumulative units attempted. Students must achieve a fixed percentage of all cumulative attempted (DR grades excluded) toward their educational goal. Remedial units count when calculating Pace for SAP.

For 0 – 17.9 units completed, 50 percent is needed to meet PACE
For 18+ units completed, 67 percent is needed to meet PACE

All units on a student's transcript count as attempted units, whether they were completed with a 'W,' were retaken for a better grade, or eliminated from the GPA calculation through the Academic Renewal policy. Note: transfer of credit from schools previously attended will count as both units attempted and units completed.

Time Frame: 'SAP' Quantitative Standard

Time frame is used to determine the maximum number of units for which a student may receive financial aid for their educational goal. Time frame includes transfer units and all unaided terms of attendance. Remedial units do not count as completed units when determining time frame requirements for SAP.

Associate degree objective: maximum of 90 units
Transfer objective: maximum of 90 units
Certificate of Achievement program: maximum of 45 units

For clock hour programs, maximum must be no longer than 150% of cumulative clock hours required to complete program, as expressed in calendar time. Example: for program that is 40 weeks in length, requires 1200 clock hours and meets 30 clock hours per week, the maximum is 150% of 40 weeks, or 60 weeks.

When A Student Does Not "MAKE SAP"

"Making SAP" means meeting all three criteria: (1) required minimum GPA, (2) required minimum PACE and (3) completing educational goal on record within the maximum time frame allowed. According to federal regulations, if it has been determined that a student cannot mathematically finish their program of study within the allotted time frame, the student will be considered ineligible for financial aid.

'SAP' Statuses

WARNING: A status assigned to a student who fails to make SAP for the first time. A student on WARNING status may continue to receive aid for one semester only. WARNING status does not require an appeal or other student action.

DISQUALIFIED: At the end of the Warning semester, a student is expected to meet satisfactory academic progress standards. Students who have failed to clear SAP will be Disqualified, notified by email from Financial Aid about their loss of eligibility, and given instructions about an appeal process.

PROBATION: Financial Aid PROBATION is a status assigned to a student who fails to make SAP, who has appealed successfully, and who has had eligibility for aid reinstated. PROBATION status is reviewed on a case-by-case basis and will not be granted automatically. A student may be placed on probation for one semester only unless the appeal approval stipulates a graduated plan for improvement. Such a plan will not be granted unless it is possible for the student to meet GPA and Pace requirements within the required time frame.

EXCESS UNITS: When a student Exceeds Time Frame. Students who exceed the maximum unit Time Frame for their educational goal will not be eligible for further financial aid. Students disqualified for exceeding time frame requirements may submit an Excess Units Petition, printable at **www.butte.edu/financialaid**. From the **Forms & Links** tab, click on **Forms & Appeals** for the appropriate year. Students who are failing to meet GPA and Pace standards will not be approved for an Excess Units Petition.

In order to maintain financial aid eligibility, if an Excess Units Petition is approved, the student may take courses only on that petition and may not amend the petition or submit a later petition. The petition will be considered nullified if the student does not meet GPA and Pace requirements.

Students Who Do Not Make SAP While on Financial Aid Probation or Excess Units Petition

Students who do not make SAP while on Financial Aid Probation or Excess Units Petition are disqualified from receiving further financial aid, including loans, and will be unaided until or unless they are able to reestablish eligibility. Reinstatement of eligibility requires achieving SAP standards:

- Minimum cumulative GPA of 2.0
- Minimum completion rate (PACE) of 67 percent

Reinstatement will not be automatic and will be reviewed on a case-by-case basis.

Repeated Coursework

Classes that a student is repeating may be included when determining the student's enrollment for financial aid as long as the repeat is not a result of:

- more than one repetition of a previously passed course, or
- any repetition of a previously passed course due to the student failing other coursework required to be taken simultaneously, or
- any repetition of a previously passed course for the sole purpose of gaining eligibility for financial aid.

Students may refer to the financial aid web pages at **www.butte.edu/financialaid** for additional information.

Regulations Pertaining To Loan Eligibility and Satisfactory Academic Progress

Repayment of student loans is required by federal law, and begins when a student graduates, drops below 6 units a semester, or withdraws from all their classes. Exit counseling also must be completed at this time. A student loan deferment is in place only when a student is enrolled in six or more units.

Loan Denial: Butte College has the right to reduce or deny loans on a case-by-case basis. Students who did not complete a minimum of 6 units in the prior semester are considered to be high-risk and are subject to a delayed loan application process and request of additional information. A course evaluation is required as part of the loan application process for all high-risk borrowers. These students should plan for a loan application delay as well as the possibility that their request may be reduced, cancelled, or denied.

Keeping Your Financial Aid

Continuing eligibility for all types of student financial aid (including loans) requires meeting general eligibility requirements as established by the federal government (see Apply Here at **www.butte.edu/financialaid**). Requirements include: (1) not being in default on a federal student loan or owing repayment of a federal grant; (2) maintaining Satisfactory Academic Progress; and (3) current enrollment in both an eligible Education Goal and Academic Program. Satisfactory Academic Progress includes all aided and unaided courses at Butte as well as work completed at all prior institutions of higher education. Eligible Academic Program and Education Goal are monitored throughout the semester for eligibility to receive federal and state funds.

Return to Title IV: Withdrawal, Refund, Repayment

The Return of Title IV Funds Policy (R2T4) was established by the Higher Education Act and applies to any student who receives federal financial aid, has enrolled in classes, and subsequently either drops courses and/or is reported as an "Unofficial Withdrawal" (FW, No Show) during or after the semester ends. At Butte College, the R2T4 policy applies to all periods of enrollment: fall semester, spring semester, and summer session.

When a student withdraws from his/her courses, for any reason including medical withdrawals, he/she may no longer be eligible for the full amount of Title IV funds they were originally scheduled to receive. Butte College follows the federally prescribed policies and procedures for calculating whether the student has earned all or a portion of their federal financial aid.

- For an official withdrawal, the effective withdrawal date is the first date of notification by the student to the Office of Admissions and Records, SAS-179. Students should follow the official withdrawal policy as published in the Butte College Catalog, under Drops and Withdrawals.
- A student who ceases to attend without officially withdrawing is considered an "Unofficial Withdrawal." When a student does not follow the official withdrawal procedure and has ceased attending, an effective withdrawal date will be assigned by instructors at the end of the semester with an FW and the last date of attendance.

Calculation of Earned and Unearned Title IV Aid

Both Title IV aid recipients who complete the official withdrawal process or have decided to unofficially withdraw from Butte College, are subject to a prorated calculation of "earned" federal aid based on the withdrawal date and the mandatory return of Title IV funds to the appropriate accounts. Responsibility for repayment of these funds will be shared by Butte College and the student according to the federal formula for prorated refunds of "unearned" Title IV aid.

The complete policy and examples of calculations are available at **www.butte.edu/financialaid**. Under the **Keeping**

Your Aid tab, click on **Return of Title IV Funds**.

Student Right-To-Know and Campus Security Act

In compliance with the Student Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of Butte College to make available to all current or prospective students the completion and transfer rates of certificate, degree, or transfer-seeking first-time, full-time students entering the college, beginning in Fall, 2014 and annually thereafter.

Based upon the cohort defined above, 31.28 percent attained a certificate, degree, or became "transfer-prepared" during a three-year period (Fall 2014 to Spring 2017).

Based upon the cohort defined above, 9.95 percent transferred to another postsecondary institution (CSU, UC, or another California Community College) prior to attaining a degree, certificate, or becoming "transfer-prepared" during a five semester period (Spring 2015 to Spring 2017).

These rates do not represent the success rates of the entire student population at Butte College, nor do they account for student outcomes occurring after this three-year tracking period.

Annual reports of criminal activity on campus and procedures for prevention of campus crime, as required by the Crime Awareness and Campus Security Act of 1991 are available under Quick Guide to Butte College Safety, Disclosure of Crime Statistics and, online at **www.butte.edu/safety-security**, or by request from the College Police, (530) 895-2351.

Student Services and Resources

Butte College students have access to a wide variety of services and resources, each of which stands ready to offer valuable assistance in helping to make the most of each student's educational experience.

Office of Admissions and Records

(530) 895-2361 - located in SAS, first floor

This Office of Admissions and Records provides a variety of services to students, faculty, and administration. The Office of Admissions and Records helps students with application submission, residency determination, course registration, fee payment, official transcript and enrollment verification transmittals, transfer credit evaluation and degree conferment. The Office of Admissions and Records assists faculty with census and grade reporting. Administration uses the information the Office of Admissions and Records collects, records, and stores for institutional research, financial reporting, course scheduling, program evaluation, and accreditation. The Main Campus Office of Admissions and Records is open Monday through Wednesday, 8 a.m. to 5 p.m., Thursday 9 a.m. to 5 p.m., and Friday, 8 a.m. to 12 p.m. Students should contact the Chico Center, (530) 895-1352, and/or Glenn County Center, (530) 865-9728, for information on hours of operation.

Bookstore

www.buttecollegebookstore.com
(530) 895-2331 - located in the Campus Center, lower level
(530) 879-4369 - Chico Bookstore

Textbooks for college courses are sold through the campus Bookstore, which also sells academic supplies, clothing, gifts, greeting cards, snack foods and other items. Check out the bookstore's textbook rental program! The Main Campus bookstore is open Monday through Thursday, 7:45 a.m. to 4:45 p.m., Friday, 8 to 11:30 a.m., but for student convenience maintains special extended hours during the first two weeks of the semester.

Visit the bookstore's website, **www.buttecollegebookstore.com.** Students may order textbooks, course materials, and school supplies online from the comfort of their homes. The bookstore always has the right textbook for Butte College courses, in the right edition, at competitive prices. Textbooks may also be purchased at the Glenn County Center in Orland and at our bookstore located in the Chico Center on Forest Avenue in Chico. If students change classes and need to exchange books or need help, the staff at the bookstore is happy to assist. Shopping the College bookstore or website saves time, money, and - most of all - mistakes and aggravation.

A full refund will be given during the first two weeks of the current semester on textbooks purchased for full-semester classes. Short-term classes have a three-day return-for-refund period from the first day of class. A textbook must be returned in the same condition as when purchased. Students must present the cash register receipt with any books, along with a picture ID and schedule of classes, or student ID card.

At the end of the semester, the bookstore will buy textbooks back. The best prices are paid at the Bookstore during Finals Week. Visit the Bookstore on the web at **www.buttecollegebookstore.com**.

Bus Transportation

(530) 895-2352 - Buses load and drop off in front of the SAS building

Bus transportation is available to most students attending Butte College. Buses run scheduled routes from major cities in Butte County with routes connecting to Glenn Ride. Bus schedules are available in the Welcome Center, Counseling and Advising, and Admissions and Records – all located on the first floor of the SAS building. The schedule is also available at **www.butte.edu/bus**. The College is committed to providing transportation to disabled students through an integrated transportation system accessible to all students.

Students with small children must have proof of enrollment at the Child Development Center before being allowed to ride the bus and be accompanied by an adult.

Butte College Dining Services

Campus Dining Center (530) 895-2327 - located in the Campus Center, main level

Main Dining

- Breakfast and lunch meals cooked to order from our Grill
- A variety of menu options from our lunch time Daily Specials - Sushi too!
- Fresh baked pizza from our Pizza Station
- Sandwiches, wraps and other items prepared fresh in our Deli
- Salads, Snacks and Grab and Go items available all day
- Catering available

Wired Café

- Full Coffee Bar service, Smoothies, Bagels and healthy snacks - internet access, too!

Coffee Stop - campus center lower level

- Coffee, pastries, sodas and grab 'n go choices

Roadrunner Outpost - science building quad

- Café service, coffee, soda, sandwiches and more

Chico Center Café

- Café service, coffee, soda, sandwiches and more

CalWORKs/TANF

(530) 893-7550 - located in SAS 281

Butte College's CalWORKs program (welfare-to-work) collaborates with County Employment and Social Services agencies to support TANF recipients with their welfare-to-work goals while they participate in pre-approved employment and/or training-related activities. ButteWORKs (CalWORKs work-study employment) is available to those with a welfare to work participation authorization. For information on CalWORKs, contact the CalWORKS office. For information on ButteWORKs, contact the Job Placement Office at (530) 895-2334.

Career and Academic Assessment Center

(530) 895-2511 - located in SAS, first floor

This Center provides students with a Career and Academic Profile (CAP) including selecting an academic program and goal and placement in English and math courses. The Center provides in-person and online options for completing the Career and Academic Profile throughout the year at various times and locations. Career Counseling and support services are available to help students identify career options. Evaluations of transcripts from other colleges are used to clear prerequisites for a variety of courses at the college. Visit the Career and Academic Assessment Center online at www.butte.edu/assessment. For fee based proctoring services, see Regional Testing Center.

Career Counseling

(530) 895-2340 - located in SAS 210

Career Counseling offers a variety of career-related services and activities. Services include career counseling, career planning workshops, vocational assessments, major, college and labor market information.

Career Counseling is available on the Main Campus and at the Chico and Glenn County Centers by appointment. Call (530) 895-2340 for an appointment and information.

Center for Academic Success (CAS)

(530) 895-2386, www.butte.edu/cas - located in the Learning Resource Center (main campus), CHC 230 (Chico Center), and GCC 105 (Glenn County Center)

The Center for Academic Success (CAS) provides many resources to support the academic success of all Butte College students. The focus of CAS is to help students gain learning strategies and study skills they can apply across the curriculum. In addition to offering a friendly, supportive atmosphere and study space, CAS offers a number of academic support services. CAS services are available on main campus, at the Chico Center, at the Glenn County Center, and, on a more limited basis, online. Check-in is required.

CAS offers free tutoring in many subjects. No appointment is necessary. For more information on tutoring and schedules, please call the main campus CAS at (530) 895-2386 or (530) 895-2808. CAS also has a Reading and Writing Center with trained tutors who support students throughout the writing process. Online TIP Sheets with writing resources and various study strategies are available on the CAS website.

CAS also offers free, drop-in Critical Skills Workshops that cover a wide variety of topics to support student success. Students can enroll in a Critical Skills for College Success course, earning ½-unit credit by attending eight workshops and fulfilling specific course requirements (see EDUC 10, 110, and 210).

Supplemental Instruction (SI) is another academic enrichment program offered in CAS. SI is designed to supplement lectures for specific classes by providing weekly study sessions facilitated by trained student leaders.

Group study rooms in CAS on main campus are available for student use. Rooms can be reserved on a first-come, first served basis. CAS offers computers for student academic use in tutor-supported drop-in labs, located in LRC 224 (inside CAS), CHC 231 at the Chico Center, and GCC 105 at the Glenn County Center. All CAS labs have computer tutors who are specifically trained to support students working on word processing, Internet research, Canvas, MyBC, and other computer applications.

Students can access NetTutor for free, online tutoring 24/7. A link to NetTutor is available in most course homepages in Canvas. If you do not see it for your class, you can enroll in EDUC 310 (free) and access this resource via the Canvas page for that course. Contact Miya Clark (clarkmi@butte.edu) for more information about NetTutor.

Cooperative Agencies Resources for Education (CARE)

(530) 895-2555 - located in the EOPS Office, SAS 281

The CARE Program provides support services for single parents receiving cash assistance from the county for themselves or their child(ren). These services include (as funds permit) assistance with child care expenses, a book/supply card, campus meal cards, and gas cards. Students must be eligible for Extended Opportunity Program and Services (EOPS) to be considered for CARE. Interested students enrolled in 12 or more units should apply online through WebAdvisor. Students enrolled in 9-11.75 units should contact the EOPS Office regarding application to the program.

Counseling/Advising Center

(530) 895-2378 - located in SAS, first floor

Counselors at the Counseling and Advising Center are available to provide students with a variety of valuable counseling services, including: exploration of their individual interests, abilities, career and educational choices, scheduling, transfer planning, and resolution of personal issues.

Counselors can also assist students by providing essential information concerning Associate Degree and Certificate requirements, college policies and procedures, and by facilitating timely transfer to four year colleges and universities. Counselors also specialize in obtaining information about course equivalencies, requirements at other colleges, and Butte College program requirements and prerequisites. The Counseling Center also offers a variety of services and resources designed to help students choose, confirm or change their career goals and to take action to move them along a path toward pursuing those goals.

Unless exempted, all new students will meet with a counselor during Orientation, prior to enrollment. The primary goal of this meeting is to assist students with appropriate course selection. It is essential that some form of Basic Skills Assessment be completed before meeting with a counselor and enrolling in classes. New Transfer-in students, who have completed 24 units at a 2.0 GPA are able to register their first term upon completion of an online orientation, but must meet with a counselor to complete a comprehensive education plan prior to registration in a subsequent term.

Counselors are also available for personal counseling to

assist students in exploring concerns and situations that may be affecting their learning and personal growth. Every effort will be made to help students resolve their difficulties and derive the maximum benefit from their educational experience. Personal counseling is available on a limited basis, and may include referral to other appropriate resources.

Counselors are available to meet with students at the Main, Chico and Glenn County Campuses.

Disabled Student Programs and Services (DSPS)

(530) 895-2455 / (530) 895-2599 (TDD) - located in SAS 238

Disabled Student Programs and Services (DSPS) authorizes accommodations for eligible Butte College students who have either a permanent or temporary disability. Students are responsible for identifying themselves as an individual with a disability, as well as providing appropriate documentation to be eligible for academic accommodations to the DSPS Office. Academic accommodations may include, but are not limited to, specialized programs and instruction, assistive technology, or modifications to existing procedures, programs or facilities. Requests for academic accommodations require the student to meet timelines or procedural requirements established by DSPS.

Extended Opportunity Program and Services (EOPS)

(530) 895-2555 - located in SAS 281

EOPS provides a comprehensive array of services to first generation, low income, and under-represented students. These services include (as funds permit) personal, academic and career counseling; priority registration; book assistance; a textbook lending library; a computer lab; a calculator and tape recorder lending program; emergency loans; child care assistance (for eligible students); UC and CSU application fee waivers; and one-to-one tutoring through the POWER Center. Interested students enrolled in 12 or more units should apply online through WebAdvisor. Students enrolled in 9-11.75 units should contact the EOPS Office regarding application to the program.

Financial Aid

(530) 895-2311 - located in SAS 160, first floor

Students seeking information on financial assistance should check with the Financial Aid Office, as a variety of grants, work-study employment, scholarships and loans are available. Brochures describing financial aid programs are available at the Main Campus office, at the Chico and Glenn County centers, and online at **www.butte.edu/financialaid**. The application is the FAFSA. See **www.studentaid.ed.gov**. Complete details are under Financial Aid in the Catalog.

Foster Kinship Care Education Program

(530) 897-6235 - Skyway Center, 2480 Notre Dame, Chico

The Foster Kinship Care Education Program provides workshops for care providers on discipline, health, community resources, guardianship, and topics such as self-esteem. Pre-service training programs and guardianship clinics are provided monthly for those interested in becoming foster parents and/or need help with the process of obtaining guardianship. Workshops are scheduled throughout the day, evenings and on Saturdays, and are open to the public. There is no charge for the training, but registration is required by calling (530) 897-6235.

Job Placement, Cooperative Education Office, Work Experience

(530) 895-2334 - located in SAS 258

The Job Placement and Cooperative Education Office provides services to help students get jobs. Job Placement assists with part-time, temporary, on-campus, internships and full-time jobs. Check the job board, either on campus or on-line, for new local jobs daily. Job Placement focuses on career-related jobs when possible, and offer workshops and individual assistance with résumé writing, cover letter writing, interview preparation and the job application process. In addition, we assist with creating Housing resumes, and scholarship applications. Students can get assistance with Financial Aid Work-Study programs, CalWORKs Work-Study (ButteWORKs), and Cooperative Work Experience Education programs. Students interested in seeking employment are encouraged to visit the Job Placement and Cooperative Education Office often. Students are invited to attend one of our two annual job fairs; one in mid September and the other the first week of May.

The Career Work Experience is a learning partnership between a student, an employer, and an instructor from the student's major department. Through the Cooperative Work Experience Education Program, students may earn transferable credit for learning while working.

Students learning in a job, which is directly related to their major, may earn from 1 to 8 Career Work Experience units each semester, up to a maximum of 16 units. Enrollment in Career Work Experience is limited to students who have received the approval of an instructor in the student's major.

Students new to the workforce may earn 1 to 6 units of General Work Experience units each semester up to a maximum of 6. Work Experience, whether paid or unpaid, is a great way to break into an entry-level position, and is looked upon very favorably by employers.

Interested students may pick up a Work Experience enrollment packet in the Job Placement Office or online at www.butte.edu/jpce.

Library

(530) 879-4017 - located on the Main Campus

Monday - Thursday, 7:30 a.m. to 5:50 p.m., Friday 7:30 a.m. to 11:50 a.m.
www.butte.edu/library

The Main Campus Library is located in the Frederick Montgomery Library building (LB). The library has a collection of over 80,000 print books, 45,000 eBooks, and 60 databases with access to full-text articles. These resources, and many other services, are searchable and available from the Library's website at **www.butte.edu/library**. Besides library books, a reserve collection of textbooks and other class-related materials, laptops and wi-fi hotspots,

headphones and calculators are also available for check-out. Interlibrary loan services provide books and articles not owned by the library. Users need a photo ID to borrow all library materials. The Library has 73 computer workstations, including 5 assistive technology stations, all with Internet access and the Microsoft Office Suite. An additional 40 computer workstations are in the Library's instruction lab. The Library offers both black and white and color printing from all computers, as well as copying and scanning.

There are over 100 study carrels throughout the three floors of the Library, as well as five group study rooms on the third floor. DVD viewing stations are on the first floor. A charging station with electrical outlets, phone cords, and comfortable seating is on the first floor.

The Library offers research help, instruction & orientations, workshops, instruction videos, citation help, and a 1-unit Library & Information Science course: LIS 11 Research Strategies available both online and face-to-face. Librarians are available during open hours to help with research in person, by telephone, and via email, or any time through online reference chat.

Library at the Chico Center and Support Services

(530) 879-4366 - Chico Center, Rm 219
Monday - Thursday, 7:30 a.m. to 9:30 p.m., Friday, 7:30 a.m. to 12 p.m.
www.butte.edu/library
The Library and Support Services at the Chico Center holds collections of reference books, ESL, and a reserve collection of textbooks, DVDs, and other class-related materials. Circulating books at Main Campus Library can be sent to Chico Center Library for pick up. Faculty can request DVDs for their classes.

Reference librarians provide library instruction, workshops, and reference services Monday through Thursday, 10 a.m. to 4 p.m.

DVD viewing stations, smart group study rooms, and computer work stations (including assistive technology stations) with access to the Internet and the Microsoft Office Suite are available. Test proctoring and support for smart classrooms, computer labs, and wireless technology are also available.

Orientation Office and START

(530) 895-2416 - located in the Welcome Center, SAS, first floor
All new and new transfer-in students to Butte College are required to participate in pre-enrollment activities before they are allowed to register. The Student Access, Retention and Transition (START) Program provides new students with the information and support necessary to insure a smooth and successful transition into Butte College. Appointments for orientation are scheduled online at **www.butte.edu/orientation** or through the Orientation Office prior to each semester. New and new transfer-in students who enroll in courses after the last available START date should contact the Orientation Office for a list of available orientation options. Only students who complete Orientation, the Career and Academic Profile, and pre-enrollment counseling and advising will be allowed to register for more than two non-exempt courses.

Queer Resource Center

(530)879-6143 - Swing Space G -101, queerresourcecenter@butte.edu
Fin us on Facebook and Instagram Butte Queer Resource Center
The Queer Resource Center provides the following services:

- Safe Student Lounge in order to complete homework, meet others in the community and gain access to resources
- Stonewall individual counseling
- Local, national, and global awareness on relevant LGBTQ+ issues and policies
- LGBTQ+ focused workshops and trainings
- Snacks ,"sex packs" which include inclusive safe sex products as well as other resources
- Community referrals

Regional Testing Center

(530) 879-4318 - Located in RTC, near parking lot 3C
The new Butte College Regional Testing Center (RTC) is a 21-station computer and paper/pencil testing facility located on the Main Campus. Services are available for students and community members and include:

- Proctoring Services (for other institutions and organizations)
- Certification and credential testing
- College Level Examinations Program (CLEP)
- State and professional licensure exams

For career and academic assessment services, see Career and Academic Assessment Center

Safe Place and Wellness Program

(530) 879-6185 - Swing Space A, safeplace@butte.edu
www.butte.edu/safeplace or find us on Facebook
Safe Place & Wellness Program (SP&WP) is an on-campus, inclusive resource that provides support and advocacy services to students who have experienced sexual assault, relationship violence, or stalking incidents. These services are free and confidential. SP&WP staff is available to assist students who may need the following services:

- Crisis intervention
- Victim Advocacy and support during any campus disciplinary investigation including Title IX.
- Victim Advocacy and support during any law enforcement investigation.
- Assistance in obtaining no-contact directives through the college or protective orders through the local court systems.

In addition SP&WP implements in class educational programing that focuses on Bystander Intervention, as well as aims to end these forms of power-based personal violence by engaging the campus community in education, programming, and transformative action.

If you are in crisis or would just like to talk to someone, please schedule an appointment by calling or stopping by the office. Safe Place office hours are Monday–Thursday, 7:30 a.m.–5 p.m., Fridays, 8 a.m.–noon.

Student Health Center (SHC)

(530) 895-2441 - located north of the ARTS building, in parking lot 3C
www.butte.edu/shc/ OR IS IT: www.butte.edu/shwc/

The Student Health Center (SHC) helps students get well, stay well, and remain in school, so that they can successfully meet their academic and personal goals. The SHC is dedicated to informing, educating, empowering, motivating and healing students. Students are encouraged to take a proactive role in their own health to insure optimal physical, mental, and emotional wellness.

Butte College students can see a medical provider or mental health therapist at no cost. The clinic offers low cost diagnostic testing including lab and imaging services. In addition to treating medical needs, the services also include immunizations, screening and treatment for tuberculosis, diabetes, blood borne diseases and illnesses, cardiovascular disease, sexually transmitted diseases, and other disorders. The Student Health Center offers mental health services. Common issues bringing students to therapy include anxiety, PTSD, depression, stress, substance abuse, eating disorders, relationship issues and other mental health issues. The center also performs physical examinations for DMV ambulance, commercial truck or bus drivers and pre-admission physicals for all Butte College programs.

The SHC helps students get enrolled in an insurance plan through the Affordable Care Act or optional, self-purchase medical and dental student insurance plans through private insurance companies. Information and assistance are available in the SHC lobby or by request. Claims involving accidents and injuries that occur on campus or during college sponsored activities must be filed through the Student Health Center.

SHC hours are from 7:30 a.m. to 12:30 p.m., and 1:30 to 4:30 p.m. Monday through Thursday, and from 8 a.m. to 12 p.m. on Friday. Patient medical needs and therapy sessions are confidential.
Please note: The Student Health fee does not qualify as an insurance policy under the Affordable Care Act.

Student Success Services

(530) 879-6260 • SAS 258, 2nd floor

Student Success Services provides one-on-one assistance and referral to intervention support services for students on academic probation and/or financial aid probation. Services are also available for students experiencing food, housing insecurities and/or homelessness.

Services are designed to help students in identifying and utilizing resources to be successful in their academic success at Butte College. Students may refer themselves for services or be referred by faculty and/or staff. Students may also be referred through the College's Early Alert Service.

The Transfer Counseling Center (TCC)

(530) 895-2264 - located in SAS 258

Did you know that public California universities (CSUs and UCs) require that admission applications be electronically submitted nearly a year prior to transferring? Did you know that nearly 1/3 of California Community College students transfer to private or out-of-state schools? Did you know that Butte now offers 31 Associate Degrees for Transfer (ADTs)? The completion of an ADT will make students a higher priority for transfer and may allow them to get an increase in their GPA for transfer.

The TCC strives to make your transfer to the college or university system as smooth and seamless as possible. Some of the popular services we provide include:

- Comprehensive Student Education Plans
- Major-specific and university-specific academic counseling
- Admission application workshops
- Transfer Admission Guarantees (TAGs)
- On-the-Spot-Admission (OTSA) appointments with Chico State and Humboldt State
- Associate Degrees for Transfer (ADTs)
- IGETC Certification
- Common Application assistance
- Cross Enrollment (with Chico State only)
- On-Line Advising

The TCC also hosts an annual Transfer Day Fair each fall. Transfer Day attracts representatives from over 25 public, private and out-of-state college and universities. The TCC hosts visits from campus representatives throughout the year. College Representatives are available to meet with students to discuss admission requirements, major-specific questions, information about housing, financial aid, etc.

The TCC offers specialized services for University of California, out-of-state and private school transfers through the new Transfer Academy. The Transfer Academy provides workshops, presentations, same day appointments, advising for Transfer Admission Guarantees (TAGs) and application assistance for its members. In addition, the Transfer Academy hosts UC representatives who come to our campus once a week to meet individually with transfer students.

Whether you plan to transfer to a CSU, UC, private college, or an out-of-state university, the Transfer Counseling Center is here to help you! Check out the Programs and Services link on our homepage to see the various workshops and initiatives with CSUs and UCs that can make you a priority for admission. Stop by and set up an appointment with a Transfer Counselor today! For more information call (530) 895-2264.

Stop by our office (SAS 258—2nd floor) for current workshop schedules. You can also check out our Facebook page or Transfer Counseling Center website at:
http://www.butte.edu/transfer/.

Office of Veterans Services

(530) 895-2566 - located in SSC

The Butte College Office of Veterans Services works closely with the college to create a campus that is safe, friendly, and accommodating to our students who have served the U.S. Armed Forces. We strive to ensure a positive and rewarding educational experience for all or our Veterans and Dependent students. Students wishing to apply for Veterans Education Benefits should contact the Veterans Services Office at (530) 895-2566 as soon as they plan to enroll.

Resources Provided:

- Veterans Resource Center with computer access, lounge and study room
- Access to onsite academic counselor
- Assistance with applying and certifying VA education benefits

- Cal-Vet Fee waiver processing for dependents
- Priority registration for veterans, reservist, national guard and active duty members
- Veteran emergency book loan
- Calculators and other equipment available to check out
- Meeting place for (SVO) Student Veterans Organization
- Referrals to on and off campus resources
- FAFSA information and assistance with applying
- Low-cost printing and faxing
- VA work-study participant site
- On campus workshops and events

www.butte.edu/veteransservices for additional information.

Welcome Center

(530) 895-2511 - located in SAS, first floor

The Welcome Center, in partnership with Campus Information, Info Cube, Orientation, School Relations, and Recruitment and Outreach offices, assists people with information regarding Butte College. Assistance is provided by phone or in person.

Information and Services found within the Welcome Center:

- Butte College Information Packets
- Campus Maps
- Campus Tours by Appointment
- School Relations including Concurrent Enrollment
- Fax Services (for a fee)
- Information regarding other housing options
- Information regarding The Social Chico (private dorm)
- Late starting classes information
- Lost and found inquiries

Located in the Welcome Center, the Campus Information Office is open Monday through Thursday, 8 a.m. to 5 p.m., and Fridays, 8 a.m. to 12 p.m. During summer months, the office is open Monday through Thursday, 7 a.m. to 5 p.m., and closed Fridays.

Campus Life

College Mascot
ROADRUNNER

College Colors
BLACK and GOLD

Butte College Art Gallery

The Butte College Art Gallery, located in ARTS 106, generally focuses on local and regional contemporary art. Displays feature media as varied as sculpture, painting, drawing, prints, ceramics, photography, fiber, mixed media, participatory installations and video. In addition, an Annual Juried Student Exhibition and Awards Ceremony honors some of the College's most talented art students. Lectures and demonstrations are often coordinated with exhibitions. All of the shows are curated, directed, and publicized by the gallery director with the assistance of students in Art 70, Gallery Production. In addition, The Lobby Gallery on the Main Campus, first floor of the ARTS building, features rotating displays on art and other interesting subjects.
For more information, contact Art/Digital Art and Design Department at (530) 895-2404.

Athletics and Intercollegiate Competition

A wide variety of men and women's sports and intercollegiate athletics are available at Butte College. Intercollegiate sports for men include baseball, basketball, cross country, football, soccer and track and field. For women, there's basketball, cross country, softball, track and field, soccer, golf, and volleyball. Butte College is a member of three intercollegiate conferences: Big 8, Golden Valley and the Northern California Football Conference.
The College offers a selection of facilities for both training and competition. The John B. Cowan Sports Complex includes a stadium which hosts football, a gymnasium for basketball and volleyball, baseball and softball diamonds, an archery range, and athletic fields for various sports. All of Butte College's athletic events are open to the public. Students with Butte College ID cards and current Century Club members are admitted free.
For more information on the athletics program, call the Director of Athletics at (530) 895-2521.

Campus Clubs

There are many student clubs on campus representing diverse student interests. Clubs are organized with the aid of a faculty advisor, but controlled by the students. Starting a new club is as easy as finding 5 students and one faculty member willing to serve as an advisor. Club applications, event updates, Interclub Council information, and forms for all your club needs can be found in the Student Life Office in the Campus Center, first floor. New clubs are formed every semester, a current list can be found at **www.butte.edu/clubs**.

If you would like to join or start a club or for general club information, contact the Student Life Office at (530) 895-2391.

Catalog and Schedules

The catalog and semester class schedules are available online at **www.butte.edu/catalog** and **www.butte.edu/schedule**.

Performing Arts Program

Students who enjoy the performing arts will find plenty to keep them occupied at Butte College. The Music and Drama departments regularly stage musical and theater productions which allow students to showcase their talents. Auditions for these productions are open to both students and community members, making it a true community theater experience.
For more information, call the Music and Drama departments at (530) 895-2994.

Speech and Debate Team (Forensics Program)

Offering 13 different speaking events ranging from Dramatic Interpretation to Team Debate, the Butte College Speech and Debate Team (CMST 12 - Forensics) offers something for everyone, including competition at intercollegiate speech and debate tournaments, and participation at community events. Although this is a required course for the Associate of Arts degree and a recommended course for the Associate in Arts for Transfer degree in Communication Studies, it is also a great place for any student interested in further developing communication, critical thinking, research and socialization skills. Plus, it's fun! For more information about the program, contact Communication Studies Department Chair, Laura Rapozo-Davis at (530) 879-4341, or Director of Forensics, Shannan Troxel at (530) 895-2236.

Student Life

The Butte College Office of Student Life is here to encourage student involvement on campus and support student initiatives. We don't separate life from education and know that learning happens both inside and outside the classroom! A successful college career includes social as well as intellectual development. We support the following programs and services on campus:

- Student Government (Associated Students)
- Student Clubs
- Butte College Student Activity Cards
- Student Life Campus Events

Visit the Office of Student Life in the Campus Center, first floor, or call (530) 895-2392.

Annual Events

A number of special annual events are held on-campus throughout the year. They include:

Spirit Day ..... September
Transfer Day ..... September
Job Fair ..... September & May
Club Promotion Days ..... September & February
Campus Sustainability Day ..... October
Day of the Dead (Dia de los Muertos) ..... November
International Education Week ..... November
Wellness Fair ..... March
Diversity Days ..... April
Earth Day Celebration ..... April
Club Challenge ..... May
Spring Spectacular ..... May

Campus Safety

The District considers the safety and well-being of its students, faculty, staff and visitors a top priority. With the support of many departments, the College is dedicated to keeping the campus safe and secure. Of course, no college can be totally risk-free in today's society. Students, faculty, staff, and visitors must work together to create an atmosphere that is safe and conducive to learning. This is in compliance with the Crime Awareness and Campus Security Act of 1990.

Butte College Police Department

(530) 895-2351 • Located in the FPM building

The College Police Department is responsible for law enforcement, security and all emergency responses on campus. It is also responsible for providing support services tailored to meet the needs of the campus community. These include:

- Provide parking enforcement
- Register and issue parking permits
- Assist campus motorists with vehicle lockouts, battery jumps, and other minor vehicle problems
- Refer individuals in need of help to the proper campus or county organizations
- Respond to emergency situations
- Assist in medical emergencies and assist Student Health Clinic as needed
- Maintain a lost and found department
- Open doors in emergency situations

The department's ability to function as an independent law enforcement agency enables it to provide a sensitive, measured approach to all situations requiring police assistance, while still maintaining the autonomy of the College. As need arises, the department requests assistance from outside agencies for incidents which require special resources.

College Police officers also patrol the campus with physical plant safety and security in mind. As a regular part of their patrol duties, they look for safety problems such as defective lighting, inoperative doors or locks, broken sidewalks, steps and hand railings, poorly lit areas, and any other problem which might cause concern. All problems observed are forwarded to Facilities Planning and Management in the form of a written work order, or directly discussed with the Director of Facilities Planning and Management. The campus is patrolled 24 hours a day, 7 days a week. Individuals can report criminal

activity or other emergencies at any time. Each incident is investigated by a College Police officer, who strives to identify and prosecute criminals, and recover stolen property.

College Police officers are sworn peace officers and comply with section 13522 of the California Penal Code relative to recruitment and training. College Police officers have peace officer authority pursuant to California Penal Code Section 830.32A and Educational Code 72330. They are required to receive the same training as municipal police or deputy sheriff's as mandated by the State of California. College Police officer authority extends to any place in the state for the purpose of performing their primary duty or when making an arrest pursuant to section 836 P.C. for any public offense which poses immediate danger to person or property.

Off-Campus Center Safety

Butte College maintains several off-campus facilities, including the Chico Center, Skyway Center and Glenn County Center. The Butte College Police Department provides primary emergency response to the Chico Center and the Skyway Center. Primary emergency response for the Glenn County Center is provided by the Orland Police Department. Any non-emergency criminal activity or suspicious behavior at the Glenn County Center should be reported to the Butte College Police Department.

Access to Main Campus Facilities

Grounds: The Main Campus grounds are open from 5:30 a.m. to 11 p.m. Monday through Friday, 7 a.m. to 5 p.m. Saturday and Sunday, 7 a.m. to 5 p.m. on non-instructional days. The campus is closed on holidays.

Buildings: Main access areas (hallways, lobbies, etc.) are opened by College Police during the week. These main access doors are locked on weekends and holidays.

Campus Driving and Parking

Rules and Regulations

1. All California Vehicle Code provisions relating to the use of bicycles, motorized bicycles and motor vehicle traffic upon the highways will be applicable to the traffic on the District property as stipulated in California Vehicle Code Section 21113.
2. No vehicles will be driven or parked on any sidewalk, service road, fields, or grounds. Exceptions may include private, emergency or District vehicles as authorized by the Director of Human Resources, Chief of Police or Director of Facilities Planning and Management.
3. Students and staff will park in the public parking lots only. Visitors may park in the public parking lots, meter spaces marked visitor on Administration Drive, or obtain a visitors parking permit at Facilities Planning and Management or offices located campus wide if there is a need to park in a staff parking area. Vendors may obtain a vendor parking permit at Facilities Planning and Management if there is a need to park in restricted areas.
4. Faculty and staff members may park in the designated staff parking areas by obtaining a staff parking permit. Staff parking permits will be issued one permit per staff and faculty. It will be the responsibility of the employee to ensure their permit is displayed and clearly visible from the outside of the vehicle. The permit should be affixed to the plastic permit hanger and hung from the rear view mirror. Butte College parking permits may be obtained at the Facilities Planning and Management office.

   Human Resources will provide Facilities Planning and Management an annual updated and complete list of all employees on District payroll which will include employees full name, status and department. This list will be used to determine eligibility for staff parking permit.
5. Only disabled persons will be allowed to park in areas marked by the international physically disabled symbol. Vehicles parked in these areas must display the Department of Motor Vehicles disabled license plate or plaque. Disabled parking spaces on campus will meet the requirements set forth in the Americans with Disabilities Act.

   Violation for unauthorized parking in marked disabled parking stall may results in issuance of a citation and fine in accordance with the provisions of California State law.
6. Double parking is not allowed in any parking area on campus. The meaning of double parking includes any position a vehicle is parked in which it blocks the exit of another vehicle from a parking space.
7. Special parking permits and reserved parking areas for constructions, facilities services, special events, District vehicles, carpool parking, staff parking, loading zones, disabled parking, etc., will be instituted by Facilities Planning and Management as the need arises.
8. Bicycles, motorized bicycles, skateboards, rollerskates and rollerblades will not be ridden on any sidewalk, roadway or on any public bench, planter, monument or other public or District property owned or under control of Butte-Glenn Community College District. The only exceptions to this procedure are that bicycles and motorized bicycles may be operated on any roadway or parking area where a vehicle could lawfully be operated.
9. Horseback riding will be allowed only in designated areas as identified by the Director of Facilities Planning and Management. Individuals wanting to ride horses on campus or in the horse arena must obtain permission from Facilities Planning and Management through the facility and equipment use application process and obtain a permit from Butte College Police.
10. Carpool parking spaces have been designated on campus. There are requirements for using these spaces.
    a. Register your vehicle at Facilities Planning and Management Office as a carpool vehicle.
    b. Display a valid Butte College carpool parking permit on your vehicle. The permit must be hung from the rear view mirror so that it can be viewed from the rear of the vehicle.
    c. Arrive on campus and park in a designated carpool parking space with at least two people in the vehicle. Car pool permits are ONLY valid in the designated carpool parking spaces.
11. Traffic citations will be issued for violating Butte College driving and parking regulations as set for in the California Vehicle Code. (Regulations are available in the Facilities Planning and Management Office.)
12. Violation of this policy may result in one or all of the following:
    a. A written warning
    b. A written citation
    c. Impounding of equipment

Quick Guide to Butte College Safety

Campus Crime Statistics

Butte Glenn Community College District - ALL Campuses

The Butte College Safety and Security on Campus report, including crime statistics specific to the Main Campus, Chico Center, Glenn County Center, and Skyway Center, can be viewed in full online at www.butte.edu/safety-security.

Reported in compliance with the Jeanne Clery Disclosure of Security Policy and Campus Crime Statistics Act for calendar years 2016, 2017, 2018.

	On Campus[1]			Public Property[2]			Non-Campus Property[3]			Crime Classification Totals*		
Crime Classification	2016	2017	2018	2016	2017	2018	2016	2017	2018	2016	2017	2018
Murder & Non-negligent Manslaughter	0	0	0	0	0	0	0	0	0	0	0	0
Negligent Manslaughter	0	0	0	0	0	0	0	0	0	0	0	0
Sex Offenses: Forcible-Non Forcible	0	0	0	0	0	0	0	0	0	0	0	0
Sex Offenses: Forcible	0	0	0	0	0	0	0	0	0	0	0	0
Sexual Assault	0	0	1	0	0	0	0	0	0	0	0	1
Rape	0	0	0	0	0	0	0	0	0	0	0	0
Fondling	0	0	0	0	0	0	0	0	0	0	0	0
Incest	0	0	0	0	0	0	0	0	0	0	0	0
Statutory Rape	0	0	0	0	0	0	0	0	0	0	0	0
Robery	0	0	0	0	0	0	0	0	0	0	0	0
Dating Violence	0	0	0	0	0	0	0	0	0	0	0	0
Domestic Violence	1	0	0	0	0	0	0	0	0	1	0	0
Stalking	0	0	2	0	0	0	0	0	0	0	0	2
Aggravated Assault	0	0	0	0	0	0	0	0	0	0	0	0
Burglary	1	2	0	0	0	0	0	0	0	1	2	0
Arson	0	0	0	0	0	0	0	0	0	0	0	0
Motor Vehicle Theft	3	0	2	0	0	0	0	0	0	3	0	2
Crime Totals	5	2	5	0	0	0	0	0	0	5	2	5

Arrests/Referrals for Selected Offenses

	On Campus[1]			Public Property[2]			Non-Campus Property[3]			Crime Classification Totals*		
Offenses Type	2016	2017	2018	2016	2017	2018	2016	2017	2018	2016	2017	2018
Liquor Law Violations												
Arrests	2	2	1	0	0	0	0	0	0	2	2	1
Referral	3	3	0	0	0	0	0	0	0	3	3	0
Drug Law Violations												
Arrests	1	0	0	0	0	0	0	0	0	1	0	0
Referral	6	3	2	0	0	0	0	0	0	6	3	2
Weapons Possession												
Arrests	1	0	0	0	0	0	0	0	0	1	0	0
Referral	0	1	0	0	0	0	0	0	0	0	1	0

	On Campus[1]			Public Property[2]			Non-Campus Property[3]			Crime Classification Totals*		
Hate Crimes	2016	2017	2018	2016	2017	2018	2016	2017	2018	2016	2017	2018
as Defined by the UCR	0	1	0	0	0	0	0	0	0	0	1	0
bias (Gender Identity)	0	1	0	0	0	0	0	0	0	0	1	0
bias (National Origin)	0	0	0	0	0	0	0	0	0	0	0	0

**** Column totals are separate figures and not expected to tally.***

Definitions of Clery Act Crimes and Hate Crimes can be found at **www.butte.edu/safety-security**, pages 17-20.

[1] **On Campus:** For the purpose of this report, "On Campus" offenses are defined as those offenses reported to the Campus Police Department and occurred within the boundaries of the College.

[2] **Public Property:** For the purpose of this report, "Public Property" offenses are defined as those offenses reported either to the Chico Police Department, the Oroville Police Department, the Butte County Sheriff's Department, or the Glenn County Sheriff's Department, and occurred within the jurisdiction of the respective City or County.

[3] **Non-Campus Property:** For the purpose of this report, "Non-Campus Property" us defined as any other properties not located within the boundaries of the Butte College Main Campus.

Crime Prevention

It is the College's intent to inform students and staff of any criminal activity or security problem which may pose a reasonable threat to their physical safety. Such information will normally be distributed through staff newsletters, in-house memos and bulletins. Students are the main ingredient in the crime prevention recipe, and their efforts help keep criminal activity at the lowest possible level on campus.

Students are asked to:

1. Report all criminal activity and/or suspicious circumstances to the College Police Department.
2. Protect personal property as if it were money.
3. Mark personal property such as tape recorders, calculators, radios, etc., with some identification, such as Butte College ID number or driver's license number.
4. Do not walk alone at night if at all possible.
5. Do not leave books, jewelry, purses, wallets, backpacks, or other valuables unattended for any length of time.
6. Do not leave personal property in desks or file cabinets unattended unless they are locked.

Reporting Emergencies

- **Call 911**, then immediately call Butte College Police at (530) 895-2351 or COPS (2677) from campus phones.
- Program cell phone to (530) 895-2351

Reporting Crimes and Suspicious Activity

- Call from on Campus Office Phone: 2351 or COPS (2677)
  From Pay/Cell Phones: (530) 895-2351
- Use one of several Emergency red or blue phones located throughout the campus. These phones are a direct line to College Police.
- Report in person at the Facilities Planning and Management building, located next to parking lot 1E. After hours a police emergency red phone is available, located next to the Facilities Planning and Management building front door.

College Police

The College Police is located in Facilities Planning and Management **(530) 895-2351**

Student Conduct

The Board of Trustees recognizes that as citizens of the Butte-Glenn Community College District, students are free, individually and collectively, to express their interest. Students of the College are afforded certain rights and privileges, in addition to the freedom to learn. However, these privileges carry with them an obligation to respect the rights and privileges of others, as well as an obligation to abide by rules and regulations set by the College, its various agencies, and its agents.

Academic Honesty

Student integrity is an expectation as well as an essential part of success at Butte College. Students should strive to maintain high ethical standards in their scholarship, as members of the campus community, and in their personal lives. It is critical that students understand this responsibility and that they act with integrity in all their intellectual pursuits. The responsibility to act in an ethical manner is fundamental in the search for knowledge and failure to maintain high ethical standards may result in disciplinary action.

Student Rights and Privileges

The Butte-Glenn Community College District believes that each student has an earnest purpose and that students will adhere to acceptable standards of personal conduct. In the development of responsible student conduct, disciplinary proceedings play a role substantially secondary to example, counseling, and admonition. In the exceptional circumstances, when these preferred means fail to produce student acceptance of responsibility commensurate with student freedom, due process shall be observed to protect the student from the unfair and arbitrary imposition of serious penalties. The College has developed procedures for protecting student rights. The rights protected under these procedures include, but are not limited to, those guaranteed by the established rules and regulations of the Butte-Glenn Community College District, the Education Code of the State of California, Title IX of the Education Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973. The Superintendent/President is authorized to suspend any student for good cause for an indefinite period of time as prescribed by code.

Grounds for Disciplinary Action

The following categories of behavior constitute good and sufficient cause for disciplinary action. Inappropriate behavior includes, but is not limited to, the following categories:

Dishonesty: This includes cheating, plagiarism, or knowingly furnishing false information to the College.

Cheating: This is the willful and intentional fraud and deception for the purpose of improving a grade or obtaining course credit, and includes all behavior by a student which is intended to gain unearned academic advantage by fraudulent and/or deceptive means. If charges are brought and proved, the consequences are severe, ranging from failure in an individual course to long-term suspension from the College.

Forgery: This includes altering or issuing College documents, records, or identification.

Obstruction/Disruption: This includes obstruction or disruption of teaching, research, computing services, administration, disciplinary procedures, or other College activities, including its public service functions and other College-authorized activities.

Physical Abuse: This includes the physical abuse of any person on College-owned or controlled property or at College-sponsored or supervised functions, or conduct which threatens or endangers the health of any such person.

Property Theft/Damage: This includes printed or software materials of the College, a member of the College community, or a campus visitor.

Policy/Regulation Violations: This includes violation of College policies or campus regulations, including regulations concerning the registration of student organizations, the use of College facilities, or the time, place, and manner of public expression.

Alcohol and/or Narcotics: This includes the use, possession, sale, or distribution of narcotics or other restricted drugs and alcoholic beverages on campus or at College-sponsored activities.

Discrimination: This includes discrimination due to race, color, creed, sexual orientation, age, physical or mental disability, veteran status, ancestry, religion, national origin, marital status, or any other protected characteristic.

Harassment: This includes harassment of a student or employee, and sexual harassment.

Student Disciplinary Action – Board Policy and Administrative Procedure 5500 – Standards of Conduct/ Student Discipline Procedure

As defined in Board Policy 5500, the Superintendent/President shall establish procedures for the imposition of discipline on students in accordance with the requirements for due process of the federal and state law and regulations. The purpose of Administrative Procedure 5500 is to provide a prompt and equitable means to address violations of the Standards of Student Conduct. Disciplinary action involving students is primarily the responsibility of the Vice President for Student Services. Board Policy and Administrative Procedure 5500 provide definitions of misconduct, definitions of disciplinary sanctions, and outlines the disciplinary hearing procedure.

Student Conduct Complaint and Grievance Procedures

Grievance or complaint action may be initiated by a student against another student, an instructor, or administrator, or any other District employee, and the College may initiate a grievance against a student. The following list indicates acts that are grounds for grievance: a) Violation of student rights; b) Act or threat of intimidation or harassment by a District employee or by a student; and c) Act or threat of

physical aggression by a District employee or by a student. All grievances will be presented to the office of the Vice President for Student Services, Campus Center (CC), Room 141, (530) 895-2239.

Student Complaints Regarding an Instructor

Students should attempt to work out a resolution with their instructors first. Student complaints regarding an associate faculty member should be referred to the Department Chair for that department. Student complaints regarding a full-time faculty member should be referred to the Dean for the department. If you are unsure, or don't know if your instructor teaches part-time or full-time, your complaint may be taken to the Dean who oversees the department. If you are challenging your grade in a class, please see Challenges to Grades in the Catalog. For students in Online courses, please follow this same procedure. For students enrolled in specific programs that have handbooks or manuals, refer to the procedures outlined in those documents as they may differ from this procedure. If the complaint is regarding accommodations for a disability, please contact the Disabled Students Programs and Services Office, SAS 238, (530) 895-2455.

Campus Safety Policies and Resources

Campus Violence

Butte College has a Zero Tolerance policy for threats or acts of violence against members of the campus community. Civility, understanding, and mutual respect are intrinsic to excellence in teaching, learning and maintaining a productive work environment. The College is also committed to providing a safe and healthy campus culture, which serves the needs of its many constituencies. The campus prohibits and will take decisive action to eliminate:

- verbal or written harassment
- behaviors or actions interpreted by a reasonable person as carrying the potential for violence and/or acts of aggression such as:
  - acts which can be interpreted as physical assault
  - threats to harm someone or endanger the safety of others
  - threats to destroy or the actual destruction of property
  - possession of a weapon (Penal Code 626.9 prohibits bringing a firearm, knife or dangerous weapon onto the campus of a public school including a California Community College).

Such conduct is subject to disciplinary action up to and including dismissal from employment, expulsion from Butte College, or civil or criminal prosecution, as appropriate. To fulfill this policy, Butte College will work to prevent violence from occurring and will ensure that federal and state laws, as well as campus regulations prohibiting violence, are enforced. In determining whether conduct constitutes a credible threat or act of violence, the circumstances surrounding the conduct will be considered. It is the responsibility of administrators, faculty, staff, and students to take any threat of violence seriously. Failure to report any threat is subject to disciplinary action. Managers/Supervisors can also be held responsible for civil and personal liability. When confronted by an imminent or actual incident of violence, call 9-1-1 immediately. When presented with a threat of possible violence, action is recommended as follows:

- Threats by a student should be reported immediately to the Butte College Police Department and the Vice President of Student Services.
- Threats by a staff or student employee should be reported immediately to the Butte College Police Department and the reporting employee's supervisor, who will contact the VP of Student Services for assistance.
- Threats by a faculty member should be reported immediately to Butte College Police Department and the Vice President of Student Services.
- Threats from others not affiliated as a student or employee of the campus should be reported immediately to Butte College Police Department.

The Mental Health Advisory Committee (MHAC)

The purpose of the MHAC is to proactively identify, assess, and offer a coordinated institutional response to community members (and non-members) who pose a risk to themselves, others and/or the campus community. For more information, contact the VP of Student Services, (530) 895-2239. Information concerning Butte College policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from Butte College Police Department. The Butte College Annual Security and Fire Safety Report may be obtained from the Butte College Police Department at (530) 895-2351 or, **www.butte.edu/fpm/collegepolice/**.

Hate Crime Policy

Butte College will ensure that rights guaranteed by the college, the State and the U.S. Constitution are protected for all people regardless of race, ethnicity/national origin, religious belief, sexual orientation, gender or disability. Any acts or threats of violence, property damage, harassment, intimidation or other crimes designed to infringe upon those rights will be given the utmost priority. Butte College and Butte College Police Department are dedicated to maintaining a cooperative effort with local, state and federal agencies as well as the community we serve toward the immediate investigation of reported hate crimes and hate-related incidents, and prosecution and/or campus sanctions as appropriate. This policy provides: (a) guidelines for identifying and investigating reportable crimes and incidents and (b) the resources to which victims can be referred for assistance.

Definitions of Hate-Motivated Crimes and Incidents

Hate Crime: Any unlawful action designed to frighten, harm, injure, intimidate or harass an individual, in whole or in part, because of a bias motivation against the actual or perceived race, religion, ethnic/national origin, sexual orientation, gender, or disability of the victim. Hate Incident: Not all expressions of hate or group bias rise to the level of a hate crime as defined in state and federal statute. A noncriminal act or incident, while not criminal, is done with the apparent intention to: harass, intimidate, threaten, retaliate, create conflict, because of a person's race, ethnic/national origin, religious belief, sexual orientation, gender, or disability.

Reporting and monitoring of hate incidents is important, as they may serve as indicators of potential threats and/or campus climate that may escalate into criminal acts.

Disclosure of Campus Safety and Security Policies, Crime Statistics

The Annual Security and Fire Safety Report is released by October 1 of each year. The report is in compliance with state and federal crime awareness and campus security legislation, including The Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act and California Education Code section 67380, and Higher Education Opportunity Act (HEOA). Butte College Annual Security and Fire Safety Report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by Butte College and on public property within, or immediately adjacent to the campus. The report also includes institutional policies concerning campus security, such as the policies concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. The report also reflects HEOA amendments that specify new campus safety requirements in the following areas: hate crime reporting, emergency response and evacuation procedures, missing student notification and fire safety issues. These disclosures were required beginning with the report due October 1, 2010. Butte College's Annual Security and Fire Safety Report are combined and published as one report. The document may be downloaded or accessed online from the Butte College Police Department web page at, **www.butte.edu/safety-security**. For more information regarding campus or fire safety or to request a printed copy of the report, contact Butte College Police Department, (530) 895-2351.

Affirmative Consent

affirmative, conscious, and voluntary agreement to engage in sexual activity. It is the responsibility of each person involved in the sexual activity to ensure that he or she has the affirmative consent of the other(s) to engage in the sexual activity. Lack of protest or resistance does not mean consent. Silence does not mean consent. Affirmative consent must be ongoing throughout a sexual activity and can be revoked at any time. The existence of a dating relationship between the persons involved, or the fact of past sexual relations between them, should never by itself be assumed to be an indicator of consent.

Consent is clear permission by word or action to engage in mutually agreed upon sexual activity. Consent is active, not passive. Since individuals may experience the same interaction in different ways, it is the responsibility of each party to make certain that the other has consented before engaging in the activity. For consent to be valid, there must be a clear expression in words or actions that the other individual consented to that specific sexual conduct. Silence—without actions demonstrating permission— cannot be assumed to show consent.

Affirmative Consent can be withdrawn or revoked. Affirmative Consent cannot be given by a person who is incapacitated. A person cannot consent if he or she is unable to understand what is happening or is disoriented, helpless, asleep, or unconscious for any reason, including due to alcohol or other drugs. An individual who engages in sexual activity when the individual knows, or should know, that the other person is physically or mentally incapacitated has violated this procedure.

A person with a medical or mental disability may also lack the capacity to give consent. Because alcohol or other drug use can place the capacity to consent in question, sober sex is less likely to raise such questions. It is not an excuse that the individual responding party of sexual misconduct was intoxicated and, therefore, did not realize the incapacity of the other.

Incapacitation is defined as a state where someone cannot make rational, reasonable decisions because they lack the capacity to give knowing consent (e.g., to understand the "who, what, when, where, why or how" of their sexual interaction). This procedure also covers a person whose incapacity results from mental disability, involuntary physical restraint, and/or from the taking of incapacitating drugs.

Consent to some sexual contact (such as kissing or fondling) cannot be presumed to be consent for other sexual activity (such as intercourse). A current or previous dating relationship is not sufficient to constitute consent. Likewise, consent to engage in sexual activity with one person does not imply consent to engage in sexual activity with another. The existence of consent is based on the totality of the circumstances, including the context in which the alleged incident occurred and any similar previous patterns that may be evidenced. Silence or the absence of resistance alone is not consent. A person can withdraw consent at any time during sexual activity by expressing in words or actions that they no longer want the act to continue, and, if that happens, the other person must stop immediately. Under this procedure, "No" always means "No," and "Yes" may not always mean "Yes." Anything but a clear, knowing, and voluntary consent to any sexual activity is equivalent to a "No."

Please see Administrative Procedure 3400 - Nondiscrimination and Prohibition of Harassment. Other Definitions. **http://www.butte.edu/community/getting_involved/contacts/trustees/Chapter3.html**

Prohibited Harassment

The District shall respond promptly and effectively to all complaints of prohibited conduct, as defined herein, and shall take appropriate action to prevent, correct, and discipline conduct that violates this procedure. This procedure is intended to protect the rights and privacy of the Complainant and the Respondent, as well as other involved individuals. Employees and students who are found to have violated this procedure shall be subject to discipline commensurate with the violation.

The District Prohibits:

Sexual Harassment

Sexual harassment is a form of sex/gender discrimination and, therefore, is an unlawful discriminatory practice. Sexual harassment is unwelcome, sexual or gender-based verbal, written, online, and/or physical conduct.

Sexual harassment creates a hostile environment, and may be disciplined when it is sufficiently severe, persistent, or pervasive that it interferes with, limits, or denies the ability of an individual to participate in or benefit from educational programs or activities or employment access, benefits, or opportunities. In determining whether sexual harassment against a student, faculty, or staff resulted in a sexually hostile environment, the District will consider the conduct in question from both a subjective and objective perspective.

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 or rejections of such conduct results in adverse educational or employment action. Reports of sexual harassment should be reported immediately to the District's Title IX Coordinator & Compliance Officer.

Sexual Misconduct

Sexual misconduct includes sexual activity engaged in without affirmative consent. State law defines various violent and/or non-consensual sexual acts as crimes. Additionally, the District has defined categories of sexual misconduct, as stated below, for which action under this procedure may be imposed. The District uses the term "sexual misconduct" to address behaviors like rape and sexual assault. The use of this term is not intended to diminish or minimize a victim's experience but is instead recognition that the District has no authority to determine that a crime occurred. The District does not view sexual misconduct as a lesser form of misconduct than rape or sexual assault. Acts of sexual misconduct may be committed by any person upon any other person, regardless of the sex, gender, sexual orientation, and/or gender identity of those involved. Please see Administrative Procedure 3400 - Nondiscrimination and Prohibition of Harassment-Sexual Misconduct pg. 6-8 **http://www.butte.edu/community/getting_involved/contacts/trustees/Chapter3.html**

The District will respond to all reports and complaints and will take appropriate action to prevent, correct, and discipline conduct that violates this procedure. To report alleged violations, an individual may submit a written complaint to the Title IX Coordinator & Compliance Officer (any protected status except disability). A complaint may be submitted via email to jimenezst@butte.edu or in person at SAS 249 on the main campus.

Sexual Assault Crisis Support

Sexual assaults may be reported to any of the following offices. Butte College is committed to providing survivors with support, options, and resources.

On Campus:
Title IX Coordinator ..... (530) 893-7487
Butte College Police Department 9-1-1, (530) 895-2351
Safe Place ..... (Confidential) (530) 879-6185
Student Health Center ..... (530) 895-2441

To Report Sexual Misconduct Contact
Title IX Coordinator ..... (530) 893-7487
Human Resources ..... (530) 895-2400
Community: Rape Crisis Intervention 24 hour crisis line
(Collect calls accepted) (530) 342-RAPE (7273)

If You Are Assaulted

It is extremely important for you to seek help immediately by doing the following:

- Get to a safe place and call police or 9-1-1. They will take you to the hospital and make a report if desired.
- To help preserve evidence, do not douche, bathe, change clothing, or remove anything from the location of the assault.
- Call or ask someone to call an advocate from Rape Crisis who can assist you in notifying the appropriate agencies. If you wish an on-campus advocate, call Safe Place (530) 879-6185.

Reporting

Pursuant to the Clery Act, statistics are maintained for sexual assault, forcible and non-forcible sex offenses, and other required crime categories. All employees with significant responsibility for student services are required to report incidents of sexual assault and crimes listed under the Clery Act. If the survivor does not wish to report to Butte College Campus Police, an anonymous and confidential data collection form is available at Safe Place, Vice President for Student Services, Human Resources, and the Student Health Center.

Hazing Policy

Participation in any kind of hazing is a misdemeanor. Hazing is defined as "Any method of initiation into a student organization or any pastime or amusement engaged in with respect to such an organization which causes, or is likely to cause, bodily danger of physical harm to any student or other person attending the College."

Smoking Policy

Butte College's Main Campus, Chico Center, and Skyway Center are designated as non-smoking campuses except in designated areas. At the main campus smoking is banned in all undeveloped areas of the campus. Smoking is banned in all of the inner campus, except in designated areas. At all leased facilities, smoking policy is determined by local government. Butte County Ordinance No. 3039, "Regulation of Smoking in Work Places and Enclosed Public Places," prohibits smoking in all public places and work places. Glenn County Ordinance No. 1011, "Controlled Use of Tobacco Products in Public Buildings and Vehicles," bans smoking in any public place, building, or vehicle. State Health and Safety Code makes it unlawful for any person to smoke in any public transportation vehicle. The bus loading zone is a non-smoking area.

Substance Abuse Policy

In accordance with Public Law 101-226, "Drug Free Schools and Communities Act Amendment of 1989", the Board of Trustees of the Butte-Glenn Community College District prohibits the unlawful possession, use, or distribution of illicit drugs and alcohol by students or employees on Butte College property and as part of any Butte College sponsored or sanctioned activity. Any student or employee who is in violation of this policy is subject to disciplinary action up to, and including, expulsion from Butte College or termination of employment for violations of the standards of conduct. The decision to take disciplinary action in any instance rests with the Superintendent/President of Butte College. The possession, use, and sale of alcoholic beverages by anyone on Butte College-controlled property is a misdemeanor as per California Business Code 25608 (community college) and a violation of the Standards of Student Conduct. The use, sale or possession of any illegal drug is a violation of state law and any person found in violation may be subject to arrest by federal, state, local, or campus law enforcement authorities. Criminal prosecution is separate from any administrative discipline that may be imposed by the District.

Drug Free Campus Policy Board Statement

The Board of Trustees is committed to providing a drug-free work environment for the students, staff, and faculty of Butte College. This concern with the use of illegal substances and the inappropriate use of alcohol and other controlled substances is demonstrated by using the resources appropriate to each segment of the campus community. The goal is to maximize student and staff potential through the provision of resources which will empower them to make informed decisions about substance use and abuse and enable them to be healthy and productive. The substance abuse committee, made up of faculty, staff, and students, will be a standing committee with the specific task of developing procedures to implement this policy. This committee will be responsible only to the Superintendent/President and the Board of Trustees.

Disciplinary Actions

Use, possession or distribution of narcotics or other restricted drugs and alcoholic beverages on campus is subject to disciplinary actions.

Legal Sanctions

Drug or alcohol abuse on campus or at college-sponsored functions could result in suspension, expulsion, or criminal prosecution. Students should be aware of these penalties.
Possession or use of alcohol: one year in jail and/or fine.
Possession or use of alcohol by minor: one year in jail and/or fine.
Possession of marijuana: less than 1 oz.: a fine; more than 1 oz.: county jail and/or fine.
Possession of cocaine: imprisonment for one year.
Sale of any illegal drug: imprisonment in a state prison.
Students are required to report any convictions within five days of the occurrence. If students are a student employee, their employment may be terminated.

Students will be ineligible for financial aid.

Health Risks of Use/Abuse of Drugs and Alcohol

In general, drug and alcohol misuse may cause

Impaired performance: due to drowsiness, poor concentration, memory loss, and indifference

Impaired judgment: leading to accidents, unwanted pregnancy, sexually-transmitted diseases, violent behavior, and financial problems.

Specific risks of drug and alcohol misuse include

Alcohol: lowered resistance to disease ulcers, sexual dysfunction, liver, heart and pancreas damage, brain damage, cancer

Cocaine: depression, seizures, cardiac arrest

Marijuana: lung damage, cardiovascular problems, loss of brain cells

MDMA: degeneration of neurons, brain damage, heart disease

Intravenous drug use: schizophrenia, difficulty with pregnancy, brain and nerve damage, sudden death

PCP: can spread hepatitis and HIV

Alcohol/Drug Treatment and Referral Sources

On Campus

Counseling Center, (530) 895-2378
Student Health Clinic, (530) 895-2441

Off Campus

Alcoholics Anonymous, (530) 342-5756
Alanon Club, (530) 533-9865
Butte County Alcohol and Drug Center, (530) 891-2784
Family Service Association, (530) 891-1731
Help for Drinkers, Family or Friends, (530) 533-9865, (530) 877-6238
Narcotics Anonymous, (530) 877-6361
Northern Valley Indian Health Inc., (530) 534-8440
Prevention Education Program, Inc., (530) 891-6148

District Policy Statements

Non-Discrimination

Butte-Glenn Community College does not permit discrimination or harassment in its programs and activities on the basis of race, color, national origin, ancestry, sex, gender, gender identification, sexual orientation, disability, age, religion, physical and/or mental disability, medical condition, veteran status, marital status or any other characteristic protected by institutional policy and, state, local or federal law. The College values fairness and equity for all members of the College community. The following individuals have been designated to handle inquiries regarding the non-discrimination policies and Section 504 discrimination:

Stephanie Jimenez
Interim Title IX Coordinator & Compliance Officer
Student Administrative Services (SAS) Building 249
530-893-7487; jimenezst@butte.edu

Chris Little
Executive Director-Human Resources
Student Administrative Services (SAS) 344
530-879-4052; littlech@butte.edu

Allen Renville
Vice President for Student Services/ADA/504 Coordinator
Campus Center (CC) 141
530-893-7501; renvilleal@butte.edu

For further information and resources on notice of non-discrimination:
San Francisco Office
Office for Civil Rights (OCR)
U.S. Department of Education
50 United Nations Plaza
Mail Box 1200, Room 1545
San Francisco, CA 94102
415-486-5555; ocr.sanfrancisco@ed.gov
FAX: 415-486-5570; TDD: 800-877-8339

Receiving and Requesting Accommodations Under ADA

Butte College shall not discriminate against a qualified individual with a disability because of the disability with regard to employment or provision of District programs, services, and activities. A student who is otherwise qualified may request accommodation related to their disability from the Disabled Student Programs and Services (DSPS) Office located in the Student Administrative Services (SAS) building in room 238 or online through the DSPS webpage: **http://www.butte.edu/dsps/**. Students may also contact the DSPS Office at (530) 895-2455 for additional information or assistance. The ADA Student Coordinator for Butte College is Allen Renville, Vice President for Student Services, Campus Center, Room 141, (530) 895-2239. An employee who is otherwise qualified may request an accommodation related to their disability from the Human Resources Office located in the Student Administrative Services (SAS) building in room 344. Employees may also contact the Human Resources Office at (530) 895-2400 for additional information or assistance. The ADA Employee Coordinator for Butte College is Chris Little, Executive Director for Human Resources, Student Administrative Services, Room 344, (530) 895-2400.

Academic Standards

To aid students in achieving their personal and academic goals, the College has in place certain Academic Regulations that govern the matriculation process and provide guidelines on common concerns, such as how to add and drop classes, applying for Leaves of Absence, and challenging grades. Any regulations printed in this Catalog may be superseded if the Board of Trustees of the Butte-Glenn Community College District adopts new or revised rulings on the same subject.

The Matriculation Process

Matriculation is a process which brings Butte College into an agreement with a student for the purpose of realizing that student's educational objectives. All students who enroll for the first time in credit courses are matriculants. The matriculation agreement acknowledges the responsibilities of both Butte College and the student to attain those objectives through the College's established programs, policies, and requirements.

The College agrees to:

- Provide an admissions process
- Provide an assessment of basic educational skills and career goals
- Provide pre-enrollment counseling/advising and course selection assistance
- Provide assistance in developing a student educational plan
- Provide an orientation to college programs, services, and procedures
- Provide suitable curriculum or program of courses
- Provide quality instruction
- Provide continuous follow-up on student progress, with referral to support services when needed

Students agree to:

- Express a broad educational intent at the time of admission
- Identify a specific educational goal after completing 15 semester units of degree applicable credit coursework. Once the student has developed a specific educational goal, Butte College must provide the student with an opportunity to develop a Student Educational Plan within 90 days after declaration of the educational goal. If the student fails to abide by the terms of their educational plan, Butte College may limit or suspend to the student any services the College normally provides.
- Attend classes and complete assigned coursework
- Confer with counselors/advisers to discuss choices and seek out support services as needed
- Complete courses and maintain progress toward an educational goal

Academic Freedom

It is the responsibility of the Butte-Glenn Community College District to provide an institutional environment that encourages academic freedom and instills respect and commitment to the obligations required to maintain these freedoms.

Academic freedom represents the continual search for truth, and it includes protection for the teacher to teach and for the

student to learn without coercion, censorship, or other forms of restrictive interference. Academic freedom recognizes that freedom to teach and freedom to learn imply both rights and responsibilities within the framework of the law. Free discussion and free access to information, therefore, are the heart of the continuing search for truth.

Academic freedom is the freedom to discuss all relevant matters in the classroom, to explore all avenues of scholarship, research, and creative expression, and to speak or write without institutional discipline or restraint on matters of public concern as well as on matters related to professional duties and the functioning of the College. Academic responsibility implies the faithful performance of professional duties and obligations, the recognition of the demands of the scholarly enterprise, and the candor to make it clear that when one is speaking on matters of public interest, one is not speaking for the institutions.

Catalog Rights

This Catalog is the student's contract with the college. "Catalog Rights" define the set of graduation requirements a student follows as long as they maintain continuous enrollment as defined in the Continuous Enrollment Section in this Catalog. Degree requirements fall into four categories: major requirements; General Education requirements; competencies; and other college requirements such as residency and grade point average. Category requirements may be fulfilled under different catalog years provided the student is eligible to use the respective catalogs. Eligibility is determined according to the following:

Major Requirements

All major courses must be selected from any one Catalog in effect during the student's most recent period of continuous enrollment.

General Education

A Butte College course may be used to fulfill an area requirement if it is on the approved General Education list at the time the course is taken. A General Education course taken at another college can meet an area requirement when:

1. It is determined that the course is equivalent to a Butte College course listed in that area; or
2. The course is listed in that area at the College where the course was taken.

Competencies

Competencies may be completed by fulfilling requirements listed in any one Catalog in effect during the student's most recent period of continuous enrollment.

Additional District Requirements

These may be completed by fulfilling those requirements listed in any one Catalog in effect during the student's most recent period of continuous enrollment.

Continuous Enrollment, Leaves, and Attending Other Colleges

Continuous enrollment is defined as attendance in at least one semester at any regionally accredited college or university in each calendar year when a letter grade, P, NP, or a W is received for one or more courses, or a Leave of Absence is granted for that semester. Summer Session courses are not to be considered for the establishment or maintenance of continuous enrollment status. Students who leave Butte College to attend another regionally accredited college or university retain Catalog Rights and maintain continuous enrollment status, providing there is no break in enrollment as defined above, before returning to Butte College. Students who are granted medical, military, or educational Leaves of Absence are considered to be in continuous enrollment status, and retain their Catalog Rights as outlined above.

AS and AA Degrees

To be eligible for a second Associate Degree, a student must complete any additional required courses for the major and pay any required fee. In addition, if there has been a break in enrollment between the first and second or subsequent degree without an approved Leave of Absence, and the student returns to complete additional major requirements, the Catalog Rights as defined in the Catalog apply.

This rule will encompass the Area F requirement and competency requirements. Any exceptions must be approved by the Academic Council. Only one English (or ESL) course below transferable freshman composition may be used towards the Associate Degree.

Academic Achievement

Grade Reports and Transcripts

Grade reports are available through students' MyBC accounts. Transcripts are released and forwarded by the Office of Admissions and Records only upon written request by the student. Transcripts to educational institutions are sent directly to the institution. Transcripts may be mailed directly to students. Up to two copies shall be furnished free of charge. The College charges a fee for each subsequent copy and any copy provided "on-demand."

Withholding Grades, Transcripts, Certificates, and Diplomas

Any student who has a financial obligation to the College shall have their grades, transcripts, certificate or diploma withheld, and their enrollment into subsequent terms restricted. These documents and restrictions are released from the prescribed restrictions when the Office of Admissions and Records verifies that the financial obligation is no longer outstanding.

Grade Definitions

Letter grades of A, B, C, D, F, and FW are used to determine the student's Grade Point Average (GPA), while grades such as P, NP, I, W, EW, MW, IP, and RD have no effect on GPA.

Note: Non-degree applicable credit course grades are excluded when determining GPA for awarding degrees.

Letter Grades

The following letter grades may be used to measure student effort:

Symbol	Grade Point Value	Definition
A	4	Excellent
B	3	Good
C	2	Satisfactory
D	1	Passing, not satisfactory
F	0	Failing
FW	0	Failing, ceased participating

P (Pass)

To obtain this grade, the course must be passed at least at the satisfactory level (C or better). Units graded with the "P" symbol are awarded, but are not included in determining GPA. The P/NP grading option is available for most courses. However, certain courses are designated as being graded P/NP only, or as graded only (A, B, C, D, and F). For a course where no option is available, it is noted in the Catalog description of the course.

NP (No Pass)

To obtain this grade, coursework is not satisfactory, or failing. Units graded with the "NP" symbol are not included in determining GPA. This grade is used in determining progress probation and dismissal.

I (Incomplete)

Incomplete academic work for an unforeseeable emergency and justifiable reason at the end of the term may result in an "I" symbol being entered in a student's record. The condition for removal of the "I" and the grade to be assigned in lieu of its removal is stated by the instructor on the "Incomplete Grade Contract," signed by the student, and submitted by the instructor at the end of each term. The original copy of the "Incomplete Grade Contract" is filed in the Office of Admissions and Records and a copy given to the student by the instructor. A final grade is assigned when the work stipulated has been completed and evaluated, or when the time limit for completing the work has passed. The "I" may be made up no later than one year following the end of the term in which it was assigned. A student may petition the Academic Council for an extension of time due to unusual circumstances. Units graded with the "I" symbol are not included in determining the GPA. This grade is used in determining progress probation and dismissal.

W (Withdrawal)

The "W" symbol is used to denote withdrawal from a course through the last day of the eighth week of instruction or before 50 percent of an irregular term course has passed. Students are limited to a maximum of 3 withdrawals per course (T-5:55024). Fourth and subsequent withdrawals will result in a grade of FW. Students who do not withdraw prior to the deadline must be awarded a grade other than W. No notation is made on the academic record of a student who withdraws during the first two weeks of instruction of a semester, or during the first 20 percent of an irregular term course. The W grade is not used in calculating grade point average. It is used in determining progress probation and dismissal. Under certain extenuating circumstances, a petitioning process is available to provide for withdrawal with a W after the deadline.

MW (Military Withdrawal)

The "MW" symbol is used to denote military withdrawal in accordance with Title 5, Section 55024. The symbol is used when a student who is a member of an active or reserve United States military service receives orders compelling a withdrawal from courses. Upon verification of such orders, the "MW" symbol is assigned at any time after the period during which no notation is made for withdrawals. The "MW" symbol is not counted in progress probation and dismissal calculations; toward the permitted number of withdrawals; or as an enrollment attempt. In no case may a military withdrawal result in a student being assigned an FW grade. Students seeking a military withdrawal must submit a copy of their orders to the Admissions and Records Office.

EW (Excused Withdrawal)

Effective Fall 2018, the "EW" symbol is used to denote an excused withdrawal in accordance with Title 5, Section 55024. The symbol is used when a student is permitted through a petition process to withdraw from a course(s) due to specific events beyond the student's control that affect their ability to complete a course(s). Specific events beyond a student's control may include: a job transfer outside the geographical region; an illness in the family where the student is the primary caregiver; a student incarcerated in a California state prison or county jail who is released from custody or involuntarily transferred before the end of the term; a student who is subject to an immigration action; or other verified cases of accident, illness or other circumstance beyond the student's control that make course completion impracticable. The "EW" symbol cannot be used when an incarcerated student fails to complete a course(s) because of the student's behavioral violation or if the student requested and was granted a mid-semester transfer. Through the submission of substantiating documentation and/or a petition approval process, the "EW" symbol is assigned at any time after the period during which no notation is made for withdrawals. The "EW" symbol is not counted: in progress probation and dismissal calculations; toward the permitted number of withdrawals; or as an enrollment attempt. In no case may an excused withdrawal result in a student being assigned an "FW" grade. Students requesting an excused withdrawal can contact Counseling and Advising, (530) 895-2378.

The "EW" symbol may not be assigned to any coursework completed or attempted prior to Fall 2018.

IP (In Progress)

The "IP" symbol is used for those courses that are "in progress," and that assignment of a substantive grade must await their completion. The appropriate evaluative grade and unit credit is assigned and appears on the student's record for the term in which the course is completed. The IP grade is not used in calculating grade point average nor in determining progress probation and dismissal.

RD (Report Delayed)

The "RD" symbol may be assigned only by the Office of Admissions and Records. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the student's control. It is a temporary notation, to be replaced by a permanent symbol as soon as possible. RD is not used in calculating grade point average nor in determining probation and dismissal.

Pass/No Pass Options

Credit courses (all those excluding the ones numbered in the 300's and 400's) are graded in one or more ways. Some are graded Pass/No Pass Only and are so stated in the course description. For such courses, unless an I, RD, W, or IP is assigned, the only possible grades are P or NP. Some courses are Graded Only, and are so stated in the course description. For such courses, unless an I, RD, W, or IP is assigned, the only possible grades are A, B, C, D, or F. Most courses are graded optional, that is, the student may opt for a P or NP rather than for A, B, C, D, or F.

If the course description in this Catalog does not state Pass/No Pass Only, or Graded Only, then the course is optionally graded. This option, however, is subject to the following limitations:

1. For each course, an Election for Optional Pass/No Pass form must be completed and submitted to the Office of Admissions and Records prior to the last day of the fifth week of instruction, or during the first 30 percent of an irregular term course.
2. Unless an I, RD, W, EW, MW, or IP is assigned, the grade awarded is P if the student achieves an evaluative grade of A, B, or C. Similarly, if the student achieves an evaluative grade of D or F, only an NP grade symbol is awarded.
3. A maximum of 8 units optionally graded with the "P" symbol may apply toward an Associate Degree.
4. A maximum of 6 units optionally graded with the "P" symbol may apply toward a Certificate of Achievement.

- **Once submitted, the P/NP declaration can only be rescinded by successfully petitioning the Academic Council.**
- **Students should make any Pass/No Pass Option elections with due consideration.**

Challenges to Grades

To conform to the provision of Section 55025 of the California Administrative Code, Title 5, the determination of the student's grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetency. All changes or modifications to a student record must be requested no later than three years from the semester in question.

The procedures for challenging a final grade are as follows:

1. The instructor must be consulted to determine if the appropriate grade(s) were issued.
2. Students who wish to appeal the decision of the instructor must seek resolution with the appropriate dean within 15 school days after meeting with the instructor. The appeal to the dean must be in writing. In the appeal, the student should:
   a. Identify the term, control number, course name, course number, and instructor.
   b. State the action requested; i.e., change a grade of C to an A, change an I to a grade of C.
   c. Provide the reason(s) why they believe this request should be approved. The dean has 15 school days from receipt of the request to provide a written response.
3. Final appeal rests with the Vice President of Instruction. The Vice President has 15 days from receipt of the appeal to respond in writing. The Vice President's decision is final.

For complaints about an instructor and grievance procedures, see Student Conduct in this catalog.

Scholastic Honors

Semester Honors: Each semester, Butte College recognizes students who have demonstrated a high level of academic performance. Students who have an academic status in "Good Standing" and have completed 15 units of courses numbered 1 through 199 (those graded with evaluative symbols and applicable to GPA computation), including no more than one physical education activity course, may be recognized by having their name placed on the Honors List as follows:

Academic Distinction: Student has a semester GPA between 3.75 and 4.0.

Academic Excellence: Student has a semester GPA between 3.50 and 3.74.

Graduation with Honors: A graduating student whose entire undergraduate coursework reflects an overall cumulative grade point average between 3.50 and 4.0 will be recognized by the inclusion of the notation "with Honors" on his/her permanent record. In addition, if participating in commencement ceremonies, these students will be distinguished by the gold honors cord they will be wearing.

Student Effort

It is generally recognized that to adequately learn the material presented in one hour of lecture, the student should study approximately two hours outside of class. The faculty of Butte College expect this of their students. Therefore, being a full-time student is an honorable profession and requires as much work as full-time employment.

Academic Regulations

The Academic Council

Enforcement, interpretation, and waiving of academic regulations is handled by the Academic Council, which is comprised of representatives from the College's administration, counseling staff, faculty members, and student body.

The Academic Council may act upon regulations pertaining to the following policies and procedures:

- Academic renewal
- Choice of Catalog
- Course repetition
- Credit by exam
- Degree requirements
- Leaves of absence
- P/NP grading option
- Readmission after disqualification
- Schedule change after deadline
- Special studies/problems
- Unit load limitation
- Withdrawal after deadline

Academic Renewal

Academic renewal allows the College to alleviate or disregard previous substandard academic work when computing a student's cumulative grade point average. The College recognizes that some students accumulate an academic history of poor performance and that such students, on occasion, need a means of tempering their previous academic record so that they may successfully accomplish an academic goal.

In recognition of this need, the College limits such opportunity to only those students who meet the following criteria:

1. At least two years have elapsed since the most recent work to be alleviated;
2. The student must have completed, since the most recent work to be alleviated, at least 15 semester units at 3.00 GPA; or 20 semester units at 2.50 GPA; or 30 semester units at 2.00 GPA;
3. Work to be eliminated is not needed for degree and/or transfer;
4. Past work must impair the student's progress toward a legitimate educational or specific career goal. Documentation of these goals must be provided. Examples may include, but are not limited to the following:
   a. Cumulative GPA is below a 2.00
   b. Cumulative GPA is necessary to enter a specific program
   c. Cumulative GPA is necessary for specific career goal;
5. Work to be eliminated is not reflective of the student's demonstrated ability.

The Academic Council evaluates each petition on an individual basis. Any extenuating circumstances which contributed to the substandard work, such as acute medical problems, family problems, or other personal problems, must be discussed on the petition. Documentation of these issues is required. A maximum of 20 semester units from any college or university may be alleviated.

Attendance

Regular attendance in all Butte College courses is crucial to doing well. Attendance is taken during the first two weeks of regular term courses, and a student will be dropped for lack of attendance in order to accommodate others seeking to add. Dropping a class is the student's responsibility, although an instructor may choose to drop a student for unsatisfactory attendance. After the eighth week, students receive a letter grade for the class unless they can demonstrate a serious and compelling reason for their withdrawal. Specific instructors' attendance policies are included in the course syllabus, along with the drop date in short-term or irregular courses. Roll is taken for all positive attendance courses. See a counselor for more information on dropping or withdrawing from classes.

College activities such as athletic events, student government conferences, music festivals, field trips, and similar sanctioned activities are approved instructional activities. However, this should not be interpreted to mean that a student is excused from class assignment. It is the student's responsibility to consult with each instructor prior to the absence to clarify what work must be done for each class and the deadline for completion of the work to the instructor's satisfaction.

Attendance for Online Courses

Consistent participation is required in online courses. Students need to keep up with assignments from week to week. If a student does not participate or shows an unacceptable level of participation as determined by the instructor, the student can be dropped from the course. This could affect the student's participation in extracurricular activities, access to various student service programs, and eligibility for financial aid. The syllabus for each online course provides the instructor's procedures regarding attendance and participation.

Online Attendance: a) Students must access their online courses within the first day of class or they can be dropped as a "no show." b) Regular participation is the only means to document attendance in an online course. If a student fails to participate in a regular manner, as determined by the instructor, the student will be dropped for nonattendance during the first two weeks of regular term courses in order to accommodate others seeking to add. An instructor may also choose to drop a student by the end of the eighth week due to lack of participation.

Attending the First Day of Class

Because many students attempt to add classes after classes begin, instructors may drop as "no shows" those students who do not attend the first class session in order to make room for others. If a student can't attend the first class meeting but does not wish to be dropped, they are advised to call the department secretary or off-campus center where the class is being held, or bring a note to be placed in the instructor's mailbox before the first class session begins. The note should explain the student's situation and request that the instructor not drop them from class. Doing this does not guarantee the student won't be dropped.

Auditing Courses

Under certain circumstances, as provided in Board Policy No. 4070, certain courses may be taken on an audit basis. Auditing is subject to the following limitations:

1. An Application for Audit, approved by the instructor and appropriate Instructional Dean or their designee, must accompany the student's signed add card.
2. Any authorized fees must be paid. Audit fees are non-refundable.

3. A student who enrolls on an audit basis is not awarded a grade or credit. An auditing student's coursework is not graded. Instead, the notation "AU" appears on the transcript of record appropriate to the course or courses thus enrolled.
4. A student who plans to attend a course or courses on an audit basis is permitted enrollment provided space is available and the auditing student's enrollment does not impact the classroom of regularly enrolled students.
5. A student attending a class on an audit basis is disenrolled to provide room for regularly enrolled students when necessary.
6. Students enrolling on an audit basis must declare so at the time of enrollment into the course and the registration must be completed prior to the Audit deadline. Once declared, it cannot be reversed.

Credit by Examination

After satisfactorily completing 12 units of resident credit at Butte College, a regularly enrolled student may be permitted to obtain credit by examination in subject matter fields in which they are especially qualified through previous training or experience for which credit or advance placement has not been given. Credits earned through Credit by Examination may only be awarded for classes listed in the Catalog.

The examination shall include written, oral or skill tests, or a combination of all three types, and will be sufficiently comprehensive to determine that the student has essentially the same knowledge and skills as those students who successfully complete the course as a result of regular course enrollment. The examination must be administered prior to the last day of final examinations.

Procedures and Limitations

1. Students may not challenge a course until they have completed 12 units of study at Butte College.
2. Students may not challenge a course unless they have a minimum cumulative grade point average of 2.0.
3. Students may not challenge prerequisite courses after completing advanced level courses.
4. A maximum of 9 units may be challenged. However, three courses may be challenged, even though the third course may exceed the 9 unit limit.
5. Students petitioning for credit by examination must be enrolled in the course and in good standing. Attendance shall not be counted for state apportionment purposes (FTE).
6. Students may not petition a course for which they have received previous high school or college credit.
7. Instructors assign an appropriate grade according to the grading system.
8. Transcript entries shall be clearly annotated to reflect that credit was earned by examination.
9. Courses to be petitioned are determined by a counselor, the appropriate instructor, and appropriate administrator at the time of petition. The petition for credit by examination must be approved prior to the fifth week of instruction each semester.
10. Exceptions and appeals to this policy shall be referred to the Academic Council.
11. Credit earned by examination cannot be used to satisfy the 12 units in residence required for the Associate Degree. This limitation is not subject to waiver.
12. Students must be in good standing. This limitation is not subject to waiver.

Drops and Withdrawals

Students may drop classes during the first two weeks of instruction of a 17-week semester, or the first 20 percent of an irregular term course, and not have the class appear on their transcript. Students may withdraw from classes during the third through eighth weeks, or first 50 percent of an irregular term course, and have a W grade appear for the class on their transcripts. See W (Withdrawal) in the Grade Definition section of this catalog for limitations on withdrawals. To withdraw from a class between the eighth and twelfth weeks of a 17 week course (50-75 percent), students must identify "serious and compelling" reasons (see definition below), and obtain the signature of the course instructor. After the instructor's signature has been obtained, the completed withdrawal card must be submitted to the Office of Admissions and Records for processing. The late withdrawal is then granted. The date the student submits the card to the Office of Admissions and Records is the official date of withdrawal.

"Serious and Compelling Reasons"

The following may reasonably be defined as "serious and compelling"

1. An extended absence due to a verifiable accident, illness, or personal problem; for example, a one or two week absence with a doctor's written excuse;
2. An extended absence due to a death in the family. This applies to absences exceeding a week due to family affairs that must be attended to by the student;
3. A necessary change in employment status which interferes with the student's ability to attend class. This change in status must be verified in writing by the student's employer;
4. Other unusual or very special cases, to be considered on their own merit.

The following situations would not fall under the intent of "serious and compelling"

1. Grade anticipated in class not sufficiently high or student is doing failing work;
2. Failure to attend class, complete assignments or take a test;
3. Dissatisfaction with course material, instructional method or instructor;
4. Class is harder than expected;
5. Pressure of other classes, participation in social activities, or simple lack of motivation;
6. A change of major.

Withdrawal from All Classes

Students who need to withdraw from all their classes after the withdrawal deadline may have an exit interview with a college counselor. With the counselor's signature, permission may be granted for students to withdraw late from all their classes. Prior to granting late withdrawals for students enrolled in specialized vocational programs (e.g., Nursing, Law Enforcement Academy, etc.), counselors will contact the respective departments regarding the students' status.

Withdrawal from Classes During the Final Four Weeks

During the final four weeks of instruction a W or EW can be assigned only when the need for withdrawal is due to circumstances beyond the student's control, such as an accident or serious illness, and an assignment of an Incomplete is not practical. The student must obtain the instructor's signature and last date of attendance on an Academic Council Petition and submit the petition to the Counseling and Advising Center. If a student is unable to complete the paperwork the Counseling and Advising Center will assist with the process. The student must submit all documentation of the respective accident, serious illness, death, change in employment status, or other extenuating circumstance with the completed Academic Council Petition and drop card.

Excused Withdrawal

Students seeking an excused withdrawal or "EW" must see a counselor to complete an Academic Council Petition. See "EW (Excused Withdrawal)" in the Grade Definitions section of this catalog.

Dropping/Withdrawing From Short-term Classes

Students may drop with a DR grade through 20 percent of the course, and a W grade through 50 percent of the course. A "Serious and Compelling" reason is needed to withdraw 50 to 75 percent through the course. The Academic Council must approve withdrawals after 75 percent of the course has passed.

Enrollment Status

Students are responsible for making sure they are officially registered for their courses. Should an instructor not have proof of enrollment, the student is not admitted to class and must clear their status with the Office of Admissions and Records. Students may be dropped from courses if they fail to appear on the first day of instruction, unless they have made prior contact with the instructor. However, dropping a class is the student's responsibility.

Final Examinations

Final examinations are given in all courses. Students are personally responsible for taking all assigned final examinations as they are listed on the final examination schedule. Final examinations will not be given in advance of the scheduled time. Exceptions may be granted by the instructor for compelling reasons. This request must be submitted prior to the scheduled final examination week.

Leaves of Absence

There are two types of approved Leaves of Absence: those interruptions which are involuntary (medical and military), and those interruptions which are voluntary (planned educational leave).

There are two major benefits to a student taking a Leave of Absence. First, the student may be absent from the College without losing rights to specific degree and General Education requirements under an earlier, and usually more advantageous, set of requirements. Secondly, the student remains eligible to participate in Continuing Student Registration upon returning to college.

A student must have a "term of enrollment", indicated by a letter grade, W, EW, MW, I, P, NP, or 300 level courses only on the official transcript, for the prior term to be eligible for a leave of absence for the requested term. Students enrolled only in Summer or Winter sessions are not eligible for Leaves of Absence.

Students subject to disqualification or dismissal due to academic deficiencies or disciplinary action are not eligible for Leaves of Absence. There is one exception: disqualified students readmitted immediately or readmitted after one term retain Catalog Rights.

Medical Leave

Requests for a medical Leave of Absence must be accompanied by a statement from a health care provider explaining why the student must interrupt enrollment. Three years absence is the maximum allowed, except that leaves for pregnancy are restricted to the term of delivery and one year following, unless verified medical circumstances indicate a longer time is required for recuperation.

Military Leave

Requests for a military Leave of Absence must be accompanied by a copy of military orders indicating entry date. One year absence is the maximum that can be approved. Military withdrawals shall not be counted in Progress Probation and Dismissal calculations. Catalog Rights are retained with military withdrawal, MW grade designation. See "MW (Military Withdrawal)" in the Grade Definitions section of this catalog.

Planned Educational Leave

A Planned Educational Leave of Absence is defined as a planned interruption or pause in a student's regular education, during which they temporarily cease formal studies at Butte College to pursue other activities that contribute to their particular educational goals and objectives.

Such activities may be for the purpose of clarifying or enriching educational goals, and may include travel for educational purposes, on the job experience in the area of vocational or educational opportunities, or undertaking expanded responsibilities in an activity related to their educational or career goals. The student must plan to return to Butte College at the end of the leave.

Planned interruptions may also be granted to allow the solution of personal problems and thus enhance the prospect of successful completion of the student's academic program. The maximum duration of Planned Educational Leaves is one year. Such a leave does not jeopardize the rights and privileges normally associated with continuous enrollment.

Filing for a Leave of Absence

Petitions for Leaves of Absence may be obtained from the Counseling and Advising Center, and should be filed in advance of the interruption in enrollment. The Academic Council is authorized to approve, deny, or modify such petitions. Medical and military leaves may be considered retroactively if supported by individual circumstances, but Planned Educational Leaves cannot since they constitute

an agreement or "contract" which must be set in advance. Students who do not return to Butte College at the conclusion of their planned leaves are considered to have withdrawn from the College at the end of their last term of regular enrollment at Butte College.

Renewal of Leave

Renewal of Leave of Absence may be requested through the Academic Council.

Probation, Dismissal and Reinstatement

Probation

Beginning with the 1981 Fall semester, all Butte College students were accorded good standing, and any probationary status became clear. Since then, students are placed on probation according to the guidelines below. After the conclusion of each fall and spring semester, students who have earned probationary status are notified by mail. This notification instructs students to enroll in certain courses, attend various workshops, and utilize tutoring and counseling services to immediately improve academic standing. Students in probationary status are responsible for improving and maintaining satisfactory academic standing.

Academic Probation: A student is placed on Academic Probation when their cumulative GPA is less than 2.0 in all units attempted that semester. Academic Probation in dismissal status commences during the semester that at least 12 cumulative units have been attempted.

Progress Probation: A student is placed on Progress Probation when 50 percent or more of all the units attempted that semester are graded with the symbols "W," "I," and/or "NP." Progress Probation in dismissal status commences during the semester that the student has enrolled in at least 12 cumulative units.

EW (Excused Withdrawal) and MW (Military Withdrawal): Neither EW or MW symbols are counted in probation and dismissal calculations.

Removal from Probation

A student who has been placed on probation is removed from this status when:

1. The Grade Point Average (GPA) in all units attempted at Butte College is greater than or equal to 2.0
2. The percentage of all units attempted at Butte College graded with the symbols "W," "I," and "NP" is less than fifty percent (50 percent).

Dismissal

At the end of each fall and spring term, students on probation are dismissed when one or more of the following conditions apply:

1. The student has been on Academic Probation for three consecutive semesters;
2. The student has been on Progress Probation for three consecutive semesters;
3. The student has been on a combination of Academic and Progress probation for three consecutive semesters.

For purposes of this section, semesters shall be considered consecutive on the basis of the student's enrollment, so long as the break in the student's enrollment does not exceed one full primary term. Students are notified of their dismissal from the College by email, and urged to confer with a counselor immediately. Butte College dismisses students at the conclusion of each spring and fall term after 3 semesters of probation.

Students placed in dismissal status may be required to sit out for a period of up to one year according to the guidelines set forth below.

Students who have demonstrated improvement in their academic standing in the third probationary semester prior to dismissal will be placed in dismissal status; however, these students will:

- Not be subject to a sit out period
- Will be automatically granted reinstatement
- Will not be dropped from any classes in which they have enrolled in the subsequent term

Demonstrated improvement in academic standing in the third probationary semester prior to dismissal is defined as:

- GPA of 2.0 or better in that semester; and/or
- 51 percent or more units attempted that semester have been completed

Students who have not demonstrated improvement in their academic standing in the third probationary semester prior to dismissal will be placed in dismissal status and:

- Be required to sit out one semester and attend a workshop sponsored by Counseling and Advising for a 1st dismissal
- Will be granted automatic reinstatement when the sit out period is completed
- Will be dropped from any classes in which they have enrolled in the subsequent term

Lack of demonstrated improvement in academic standing in the third semester prior to dismissal is defined as:

- GPA of less than 2.0 in that semester; and/or
- Less than 50 percent of units attempted that semester have been completed

Students placed in dismissal status for a 2nd or subsequent time, without one of the appealable circumstances described, will be required to sit out for one year. Students placed in dismissal status for a 3rd or subsequent time must submit a petition to the Academic Council to be readmitted. For assistance in submitting an Academic Council petition, contact Counseling and Advising at (530) 895-2378.

Students challenging the probation and dismissal procedures outlined above or Academic Council decisions may appeal to the Dean of Student Services at (530) 895-2517.

Appealable Conditions

Students with a documented catastrophic injury, illness or other medical condition or an extenuating, non–recurring circumstance beyond the student's control may petition the Academic Council prior to the end of the third probationary semester. If approved by the Academic Council, these students will be placed in dismissal status; however, these students will:

- Not be subject to a sit out period
- Will be granted reinstatement

- Will not be dropped from any classes in which they are enrolled in the subsequent term

Veterans Satisfactory Academic Progress
The policy of the Office of Veterans Services is to provide guidance and to ensure students maintain consistent progress towards an approved educational goal. Schools are required by law to have and enforce standards of progress and conduct in order for their school to be approved for VA benefits. It is the responsibility of all VA educational aid recipients to understand the terms and conditions of the VA Satisfactory Academic Progress (VASAP) Policy in order to maintain eligibility for aid.

Standards
There are three standards used for the assessment of SAP:
1. A minimum cumulative grade point average (GPA) of 2.0
2. Completion of at least 50 percent of units attempted each semester
3. A combination of the above

Student progress is reviewed at the end of each semester according to these standards

Under this policy it is possible that a veteran or dependent's VA educational benefits could be suspended due to unsatisfactory progress while they are still technically in a probationary status with the College and allowed to continue in attendance. Any questions regarding this policy should be directed to the Office of Veterans Services at (530) 895-2566.

Repeating a Course

1. Certain courses are designated as repeatable. Course descriptions located in the back of this Catalog identify repeatable courses and list the number of times a course may be repeated. Unless otherwise specified in the Catalog, students may enroll in repeatable courses up to 4 times. Under certain conditions up to two substandard grades may be alleviated by filing a petition with Counseling. Enrollments resulting in grades of A, B, C, D, F, FW, P, NP, or W count as an attempt.
2. Certain courses are designated as non-repeatable and may be taken and completed with a C or P grade or better one time. Should a student receive a substandard grade of D, F, FW, NP, or W, a second attempt will be allowed automatically. If a second attempt results in a substandard grade, a third attempt may be approved by Counseling and Advising. In these circumstances, the first two substandard grades will be alleviated. If a third attempt results in a substandard grade, an additional attempt will not be allowed.
3. Neither an EW (Excused Withdrawal) nor an MW (Military Withdrawal) count toward the permitted number of withdrawals or as an enrollment attempted.
4. Courses designated as variable unit may be repeated an unlimited number of times until the student completes the entire curriculum, as listed in the course Catalog one time. Under certain conditions up to two substandard grades may be alleviated with approval from Counseling and Advising. Students may repeat the course or any portion thereof in order to alleviate up to two substandard grades.

Additional aggregate limitations may apply to these provisions when physical education, visual arts or performing art courses are designated as "active participatory courses" and are part of a "family" of courses with a similar primary educational activity. In these courses, students are limited to four aggregate semester enrollments. Withdrawals and substandard grades are included in determining the aggregate number of enrollments.

Additional repetitions may be approved by the college. See admissions webpage available at **www.butte.edu/admissions** for information on course repetition.

Note: Under all circumstances, where subsequent attempts of a course alleviate the grade and credit awarded under a prior attempt, the student's academic record will be annotated in a way in which all coursework will remain legible.

Revision of Regulations

Any regulations adopted by the Butte-Glenn Community College District Board of Trustees will have the same force as a printed regulation in the Catalog and will supersede upon promulgation by posting on official bulletin boards and announcement in any publication, any ruling on the same subject which may appear in the printed Catalog or other official bulletins of the College.

Special Studies/Problems

Special Studies/Problems courses provide an opportunity for students to carry out a supervised individual field, laboratory, or library research project in a subject area relevant to their major and are designed primarily for students studying in areas not covered by the College's curriculum. Any student interested in registering for a Special Studies/Problems course should contact a full-time instructor in the appropriate area no later than the last day of the tenth week of instruction.

Enrolling in Special Studies/Problems

1. When a full-time instructor works with a student to fill out a Petition for Special Studies/Problems, the full-time instructor is to ensure that it is completely filled out before approving the request. The student's ID number, the units for the project, and the units completed at Butte College (which must be at least 12) must appear on the form and the Objectives and Procedures must be explicit, including associated hours.
2. Full-time Instructors may only authorize Special Studies/ Problems petitions that fall within their teaching discipline. A maximum of four student projects per semester per full-time instructor may be approved.
3. The Special Studies/Problems petitions must be confined to the student's major.
4. The student will take the Special Studies/Problems Petition to the area department secretary for review of required elements and attachment of necessary backup documentation needed for dean/director approval.
5. Department secretary or student will take the Special Studies/Problems Petition and backup documentation to the area dean/director for review approval.
6. Petitions shall be reviewed by the area dean/director with the intent of Special Studies/Problems in mind. The area dean/director shall carefully evaluate the number of units being given for the project. If any questions exist,

the dean/director reviews the matter with the full-time instructor and makes any necessary corrections.
7. After the dean/director reviews and approves the Special Studies/Problems Petition, it will be returned to the area department secretary. The department secretary will acquire a control number from the Scheduling Center and write it on the petition.
8. The department secretary will give the student the original copy (white) and pink copy of the petition. The student will retain the pink copy. The department secretary will return the yellow copy to the instructor.
9. The department secretary will give the student an add card to complete. The student needs to take the original copy of the Special Studies/Problems Petition to the full-time instructor to verify the petition has been approved by the area dean/director. The full-time instructor may now sign the add card.
10. The student will take the completed original (white) copy of the petition and the completed add card to Admissions and Records for appropriate enrollment.
11. The instructor is required to maintain a record of each contact made with the student; namely the date, beginning and ending times, and a brief notation of what was discussed.
12. Upon completion of the project, the instructor submits a grade justification sheet, this may be in the form of a narrative summary, to the area department secretary. The department secretary will submit the grade justification sheet to the Office of Instruction.

Limitations on Special Studies/Problems

1. Units are assigned on the basis of one unit of credit for each three hours of work per week.
2. A maximum of 3 units may be taken in any one semester.
3. A maximum of 3 units may be taken for credit in any given subject area.
4. Grades are assigned according to the college grading policy.
5. Students may not petition for a Special Studies/Problems course until they have completed satisfactorily 12 units of study at Butte College.

Unit Load Limitations

A normal course load is 12 to 16 units. A student wishing to take over 21 units during a seventeen week semester, or 4 units during a winter session, or 10 units total in summer session must petition the Academic Council. The petition must be approved prior to enrollment into units/courses that are in excess of the unit limitation. Excess unit petition forms are available in the Counseling and Advising Center.

Alternative Degree Credits

Acceptance of Transfer Credit

Students who have attended other colleges or universities may transfer credit to Butte College. Transfer credit may be counted toward Associate Degree, Certificate, or General Education requirements if completed at a Regionally Accredited Institution. Students who submit official transcripts from other colleges and universities must request to have them evaluated by submitting a Transcript Evaluation Request form to the Admissions and Records Office. Transcripts from other institutions will not be evaluated unless the student has previous or current enrollment at Butte College. Information about the transcript evaluation process is available online at **www.butte.edu/services/admissions/evalProcess.html**.

International Evaluations

Students who wish to transfer coursework taken outside of the United States must obtain a transcript evaluation from an approved credential evaluation service prior to being submitted to the Admissions & Records Office. The evaluation must include a U.S. course-to-course evaluation indicating the level (upper & lower division) for each course. A list of approved agencies is available online at **www.naces.org**.

Veterans (Advanced Standing)

Upon presentation to the Office of Admissions and Records of discharge papers (D.D. Form 214) verifying one or more years of satisfactory service in the United States Armed Forces, veterans receive 6 units of unassigned elective credit. Veterans may receive additional credit or advanced placement for work satisfactorily completed under the training program of the armed forces. Interested students should check with a counselor regarding credits for military training; however, students in the six-month Reserve Training program are not eligible for this credit. This is in accordance with the recommendation of the American Council on Education, issued September 1968.

Students who wish to transfer credit from a service school or other special institution may apply for acceptance of these credits towards the Associate Degree. After completing a minimum of 12 units with a grade point average of 2.0 or above at this college, students should apply through a counselor.

For more information regarding veterans' educational benefits, call the Office of Veterans Affairs at (530) 895-2566.

Advanced Placement (AP), College Level Examination Program (CLEP), International Baccalaureate (IB) Exams

Butte College awards credit for successful completion of AP, CLEP, and IB exams. Students must submit official score reports for specified tests to the Career and Academic Assessment Center. Credit awarded may be substituted for coursework applicable to degree and certificate requirements, and also may be used for transfer to four-year colleges and universities subject to limitations imposed by those institutions. For more information, call the Career and Academic Assessment Center at (530) 895-2511.

Unit Limitation on Alternative Degree Credit

Since units awarded for successful completion of Advanced Placement examinations, CLEP and CSU English Equivalency Examinations, constitute credit by examination, such units shall not be counted in determining the 12 semester units in residence required for an Associate Degree.

Advanced Placement (AP) Test Scores

- Use of AP Test Scores for Butte College Credit and GE determined by BC Policy. Use of AP Test Scores for IGETC determined by BC and IGETC Policy.
- Use of AP Test Scores for CSU GE Certification determined by CSU Policy.
- Students may earn credit for Advanced Placement (AP) Tests with scores of 3, 4 or 5. AP credit can be used to meet IGETC, CSU GE and AA general education (GE) and/or major requirements.
- Students must have official College Board AP exam results sent to the Career and Academic Assessment Center (no hand carried copies will be accepted). All "Units" are semester units unless otherwise indicated.
- Course credit and units granted at Butte College may differ from course credit and units granted by a transfer institution.
- If no Butte College course equivalency; credit for the major may be granted via waiver/substitution petition submitted to the department.

	BUTTE COLLEGE CERTIFICATION		CSU GE CERTIFICATION			IGETC CERTIFICATION		
AP Exam	**Butte GE Area & Course (See note above)**	**Semester Units**	**CSU GE Area**	**CSU GE Units Earned**	**CSU Transfer Units Earned**	**IGETC GE Area**	**IGETC GE Units Earned**	**UC Transfer Units Earned**
Art History	Area C ART 2; ART 4	6	C1 or C2	3	6	3A or 3B	3	5.3
Studio Art - 2D Design	N/A	3	N/A	N/A	3	N/A	N/A	*5.3
Studio Art - 3D Design	N/A	3	N/A	N/A	3	N/A	N/A	*5.3
Studio Art Drawing	N/A	3	N/A	N/A	3	N/A	N/A	*5.3
Studio Art Limitation								*Minimum 5.3 units total for 3 exams
Biology	Area A BIOL 1	6 *Only 4 GE units*	B2 and B3	4	6	5B (w/lab)	4	5.3
Calculus AB	Area E Score 3=Area E (*Clear for Math 30*) Score 4, 5=MATH 30	3	B4	3	3*	2A	3	2.7**
Calculus BC	Area E Score 3=MATH 30 Score 4, 5=MATH 31	5	B4	3	6*	2A	3	5.3**
Calculus Exam Limitations	Only one exam may be applied				*Only one exam may be used towards transfer			**Maximum credit 8 qrt/5.3 semester units
Chemistry (Includes Lab)	Area A Score 3, 4=Area A Score 5=CHEM 1	6 *Only 5 GE units*	B1 and B3	4	6	5A (w/lab)	4	5.3
Chinese Language & Culture	Area C CHIN 2	6 *Only 4 GE units*	Area C	3	6	3B and 6A	3	5.3
Computer Science A	Area E	3	N/A	N/A	3*	N/A	N/A	1.3*
Computer Science AB	Area E	6	N/A	N/A	6*	N/A	N/A	2.7*
Computer Science Principles	N/A	6 elective units			*Only one exam may be used towards transfer			**Maximum credit 8 qrt/5.3 semester units
Computer Science Exam Limitations	Only one exam may be applied							
Economics - Macroeconomics	Area B ECON 2	3	D2	3	3	4B	3	2.7
Economics – Microeconomics	Area B ECON 4	3	D2	3	3	4B	3	2.7
English - Language & Composition	Area D ENGL 2	6 *Only 3 GE units*	A2	3	6	1A	3	5.3*
English - Literature & Composition	Area C & D; ENGL 2	6 *Only 3 GE units*	A2 and C2	6	6	1A or 3B	3	5.3
English Exam Limitations		Maximum 9 units if both AP English tests are passed						**Maximum credit 8 qrt/5.3 semester units
Environmental Science	Area A PSC 10	4	B1 and B3	4	4	5A (w/lab)	3	2.7

Advanced Placement (AP) Test Scores (Continued)

	BUTTE COLLEGE CERTIFICATION		CSU GE CERTIFICATION			IGETC CERTIFICATION		
AP Exam	**Butte GE Area & Course (See note above)**	**Semester Units**	**CSU GE Area**	**CSU GE Units Earned**	**CSU Transfer Units Earned**	**IGETC GE Area**	**IGETC GE Units Earned**	**UC Transfer Units Earned**
French Language	Area C FREN 2	6 *Only 4 GE units*	C2	3	6	3B and 6A	3	5.3
French Literature	Area C	6 *Only 3 GE units*	C2	3	6	3B and 6A	3	5.3
French Exam Limitations	Only one exam may be applied							
German Language	Area C GERM 2	6 *Only 4 GE units*	C2	3	6	3B and 6A	3	5.3
German Language & Culture	Area C GERM 2	6 *Only 4 GE units*	C2	3	6	3B and 6A	3	5.3
German Exam Limitations	Only one exam may be applied							
Government & Politics - Comparative	Area B POS 3	3	D8	3	3	4H	3	2.7
Government & Politics - U.S.	Area B POS 2	3	D8 and US2* *Does not fulfill AHI CA Govt. Requirement	3	3	4H	3	2.7
History – European	Area B or C	6 *Only 3 GE units*	C2 or D6	3	6	3B or 4F	3	5.3
History – U.S.	Area B or C HIST 8	6 *Only 3 GE units*	C2 or D6 and US1	3	6	3B or 4F	3	5.3
History – World	Area B or C HIST 5	3	C2 or D6	3	3	3B or 4F	3	2.7
Human Geography	Area B GEOG 4	3	D5	3	3	4E	3	2.7
Italian Language & Culture	Area C ITAL 2	6 *Only 4 GE units*	C2	3	6	3B and 6A	3	5.3
Japanese Language & Culture	Area C JPN 2	6 *Only 4 GE units*	C2	3	6	3B and 6A	3	5.3
Latin – Vergil	Area C	3	C2	3	3	3B and 6A	3	2.7
Latin – Literature	Area C	6 *Only 3 GE units*	C2	3	6	3B and 6A	3	2.7
Music Theory	Area C MUS 10	6 *Only 3 GE units*	C1 (if taken prior to Fall 2009)	3	6	N/A	N/A	5.3
Physics B	Area A	6 *Only 4 GE units*	B1 and B3	4	6	5A (w/lab)	4	5.3
Physics C – Mechanics	Area A PHYS 21	4	B1 and B3	4	4	5A (w/lab)	3	2.7
Physics C – Electricity & Magnetism	Area A	4	B1 and B3	4	4	5A (w/lab)	3	2.7
Physics 1 (includes lab)	Area A; PHYS 21	4	B1 and B3	4	4	5A (w/lab)	3	2.7
Physics 2 (includes lab)	Area A; PHYS 22	4	B1 and B3	4	4	5A (w/lab)		2.7
Physics Exam Limitations	Only one exam may be applied				*Maximum 4 semester units toward GE and 6 semester units towards transfer			**Maximum 8 quarter/5.3 semester units for both
Psychology	Area B; PSY 1	3	D9	3	3	4I	3	2.7
Spanish Language	Area C SPAN 2	6 *Only 4 GE units*	C2	3	6	3B and 6A	3	5.3
Spanish Literature	Area C SPAN 2	6 *Only 4 GE units*	C2	3	6	3B and 6A	3	5.3
Spanish Exam Limitations	Only one exam may be applied							
Statistics	Area E; Math 18	3	B4	3	3	2	3	2.7

International Baccalaureate (IB) Test Scores

- Use of IB Test Scores for Butte College Credit and GE determined by BC policy. Use of IB Test Scores for IGETC determined by BC and IGETC Policy.
- Use of IB Test Scores for CSU GE Certification determined by CSU Policy.
- Students may earn credit for International Baccalaureate (IB) Tests with scores of "5", "6" or "7"; All "Units" **are semester units**. Students must have Official IB exam results to the Career and Academic Assessment Center (hand carried copies will not be accepted for use on the A.A. or GE patterns. Scores of "4" on the Theater, Mathematics and Language exams gives credit.
- **Course credit and units granted at Butte College may differ from course credit and units granted by a transfer institution.**

	BUTTE COLLEGE CERTIFICATION		CSU GE CERTIFICATION			IGETC CERTIFICATION		
IB Exam	**Butte GE Area (See note above)**	**Semester Units**	**CSU GE Area**	**CSU GE Units Earned**	**CSU Transfer Units Earned**	**IGETC GE Area**	**IGETC GE Units Earned**	**UC Transfer Units Earned**
Biology HL	Area A	6	B2	3	6	5A (wo/lab)	3	5.3
Chemistry HL	Area A	6	B1	3	6	5A (wo/lab)	3	5.3
Economics HL	Area B	6	D	3	6	4	3	5.3
Geography HL	Area B	6	D	3	6	4	3	5.3
History (any region) HL	Area B or C	6	C2 or D	3	6	3B or 4	3	5.3
Language A* Literature HL; score of "4" awards credit	Area C	6	C2	3	6	3B and 6A	3	5.3
Language A* and Literature (any except English) HL score of "4" awards credit	Area C	6	C2	3	6	3B and 6A	3	5.3
Language A1 (any language) HL; score of "4" awards credit	Area C	6	C2	3	6	3B	3	5.3
Language A2 (any language) HL; score of "4" awards credit	Area C	6	C2	3	6	3B	3	5.3
Language B* score of "4" awards credit	N/A	6	N/A	N/A	6	6A	N/A	5.3
Mathematics HL; score of "4" awards credit	Area E; Math Competency	6	B4	3	6	2A	3	5.3
Physics HL	Area A	6	B1	3	6	5A (wo/lab)	3	5.3
Psychology	Area B	3	D	3	3	4	3	2.7
Theater HL	Area C	6	C1	3	6	3A	3	5.3

*The IB curriculum offers language at various levels for native and non-native speakers. Language B courses are offered at the intermediate level for non-speakers. Language A1 and A2 are advanced courses in literature for native and non-native speakers, respectively.

College Level Examination Program (CLEP) Test Scores

- Use of CLEP Test Scores for Butte College Credit and GE determined by BC policy.
- Use of CLEP Test Scores for CSU GE Certification determined by CSU Policy.
- CLEP credit can be used to meet CSU GE and AA general education (GE) and/or major requirements.
- Students must have official CLEP exam results to the Career and Academic Assessment Center (hand carried copies will not be accepted for use on the A.A. or GE patterns.
- All "Units" **are semester units** unless otherwise indicated.
- **Course credit and units granted at Butte College may differ from course credit and units granted by a transfer institution.**
- **If no Butte College course equivalency; credit for the major may be granted via waiver/substitution petition submitted to the department.**

	BUTTE COLLEGE CERTIFICATION			CSU GE CERTIFICATION		
CLEP Exam	Score	AA/AS GE for Butte College	Semester Units	CSU GE Area	CSU GE Units Earned	CSU Transfer Units Earned
American Government	50	Area B	3	D8	3	3
American Literature	50	Area C	3	C2	3	3
Analyzing and Interpreting Literature	50	Area C	3	C2	3	3

College Level Examination Program (CLEP) Test Scores (Continued)

	BUTTE COLLEGE CERTIFICATION			CSU GE CERTIFICATION		
CLEP Exam	Score	AA/AS GE for Butte College	Semester Units	CSU GE Area	CSU GE Units Earned	CSU Transfer Units Earned
Biology	50	Area A	3	B2	3	3
Calculus	50	Area E; Math Competency	3	B4	3	3
Chemistry	50	Area A	3	B1	3	3
College Algebra	50	Area E; Math Competency	3	B4	3	3
College Algebra – Trigonometry	50	Area E; Math Competency	3	B4	3	3
College Mathematics	50	N/A	0	N/A	0	0
College Composition	50	Area D; English & Reading Comp.	3	N/A	0	0
College Composition Modular	50	Area D; English & Reading Comp.	3	N/A	0	0
English Literature	50	Area C	3	C2	3	3
Financial Accounting	50	N/A	3	N/A	0	3
French Level I*	50	N/A	6	N/A	0	6
French Level II*	59	Area C	12	C2	3	12
Freshman College Composition	50	N/A	0	N/A	0	0
German Level I	50	N/A	6	N/A	0	6
German Level II	60	Area C	12	C2	3	12
History, US I	50	Area B or C	3	D6 + US-I	3	3
History, US II	50	Area B or C	3	D6 + US-I	3	3
Human Growth & Development	50	Area F	3	E	3	3
Humanities	50	Area C	3	C2	3	3
Information Systems & Computer Applications	50	N/A	3	N/A	0	3
Introduction to Educational Psychology	50	N/A	3	N/A	0	3
Introduction to Business Law	50	N/A	3	N/A	0	3
Introductory Psychology	50	Area B	3	D9	3	3
Introductory Sociology	50	Area B	3	D0	3	3
Natural Sciences	50	Area A	3	B1 or B2	3	3
Pre-Calculus	50	Area E; Math Competency	3	B4	3	3
Principles of Accounting	50	N/A	3	N/A	0	3
Principles of Macroeconomics	50	Area B	3	D2	3	3
Principles of Management	50	N/A	3	N/A	0	3
Principles of Marketing	50	N/A	3	N/A	0	3
Principles of Microeconomics	50	Area B	3	D2	3	3
Social Science & History	50	Area B	3	N/A	0	0
Spanish Level I*	50	N/A	6	N/A	0	6
Spanish Level II*	63	Area C	12	C2	3	12
Trigonometry	50	Area E; Math Competency	3	B4	3	3
Western Civilization I	50	Area B or C	3	C2 or D6	3	3
Western Civilization II	50	Area B	3	D6	3	3

*If a student passes more than one CLEP test in the same language other than English (e.g., two exams in French), then only one examination may be applied to the baccalaureate. For each test in a language other than English, a passing score of 50 is considered “Level I” and earns six (6) units of baccalaureate credit; the higher score listed for each test is considered “Level II” and earns additional units of credit and placement in Area C2 of GE Breadth as noted.

Academic Programs

Academic Program Types and Requirements

Butte College Degrees and Certificates

Butte College is authorized by the Board of Governors of the California Community Colleges to confer the Associate Degree for Transfer, Associate in Arts Degree, Associate in Science Degree and Certificate of Achievement upon students who complete the necessary requirements. Each degree program requires completion of specific major and general education requirements.

Associate Degree for Transfer AA-T/AS-T

CSU GE Pattern or IGETC GE Pattern

Butte College offers associate degrees for transfer to the CSU system. These degrees are designed to provide a student with a clear, seamless pathway to a CSU major and baccalaureate degree. Students completing these degrees are guaranteed admission with junior standing in the CSU system with priority consideration given to admission into the CSU Chico campus in a program that is deemed similar to the completed degree. Note that this guarantee does not guarantee admission to a specific CSU campus; it guarantees admission to the CSU system.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units. Students are encouraged to meet with a counselor to review their options for transfer and to develop a comprehensive student educational plan that best meets their transfer goals.

Local Associate Degrees AA/AS

Butte College Local GE Pattern

The Associate in Arts (AA) and Associate in Science (AS) Degrees offered by Butte College are designed to facilitate transfer to a four year institution, fill a community need or directly serve an occupational need. To earn either degree a student must complete the Butte College Local GE pattern. AA and AS degrees may also contain Certificates.

Certificates of Achievement (CA) and Certificates (CERT)

Certificate of Achievement (CA) and Certificate (CERT) are designed to provide students with a specific skill set or mastery of a body of knowledge to enter skilled employment or as a developmental milestone toward entry into specific careers. Certificates (under 18 units) are often used as building blocks to larger programs such as Certificate of Achievement (18+ units) or Degree (major requirements plus general education). Gainful Employment Disclosure information is included with individual Career and Technical Education certificate of achievement programs in this catalog.

Requirements for each level of program

AA-T/AS-T (Associate Degree for Transfer)

- Minimum 60 CSU-transferable semester units (courses numbered 1-99)
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework
- Completion of an AA-T or AS-T major as detailed in the specific program requirements
- Completion of CSU focused general education (CSU or IGETC GE pattern)
- Minimum of 12 units in residence at Butte College
- Complete a graduation application with a counselor by the deadline noted in the academic calendar

AA/AS (Associate Degree)

- Minimum 60 (courses numbered 1-199) semester units
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework
- Completion of an AA or AS major as detailed in the specific program requirements
- Completion of general education (AA/AS GE pattern) and competency requirements
- Minimum of 12 units in residence at Butte College
- Complete a graduation application with a counselor by the deadline noted in the academic calendar

CA (Certificate of Achievement)

- “C” grade or better for each course in the specific program requirements
- Minimum of 6 units in residence at Butte College
- Minimum cumulative grade point average of 2.0
- Submit Certificate of Achievement application found on the academic program page of the Butte College website

CERT (Certificate)

- “C” grade or better for each course used in the prescribed certificate
- See responsible department office listed on catalog page to apply.

Students should make an appointment to consult with a counselor about what option best fits their needs and application requirements for degrees and certificates. Call (530) 895-2378 to make an appointment.

AB 705,

New legislation allows students to register directly into transfer level coursework. Visit the AB 705 website for more details: **www.butte.edu/AB705**

Application Requirements

Students must file a formal Application for Graduation by the deadline noted in the Academic Calendar and/or online Semester Class Schedule PDF. Applications are filed through the Counseling Center. Students may apply to graduate in any term. Official transcripts of prior college work attempted must be on file in the Office of Admissions and Records before the application can be considered.

Limitation to Degree Requirements

1. Units graded Pass/No Pass—A maximum of 8 units graded with the symbol “P,” if optionally elected, apply toward graduation.
2. Students may use the same course to meet a General Education requirement for the Associate Degree and to partially satisfy a General Education requirement of the California State University system in accordance with the provision of the Butte College transfer General Education policy. Ethnic studies courses will be offered in at least one of the required areas.

Note: These limitations are not subject to waivers.

Remedial Coursework Limit

Remedial coursework refers to pre-collegiate basic skills courses in reading, writing, computation, learning skills, study skills, and English as a Second Language which are offered as non-degree credit courses. No student shall receive more than 30 semester units of credit for remedial coursework. A student who does not attain full eligibility status for college level work within this unit limit shall be dismissed and referred to adult, non-credit education courses.

The following students are exempt from the limitation on remedial coursework:

1. Students enrolled in one or more courses of English as a Second Language;
2. Students identified by the District as having a learning disability.

A student may, upon successful completion of appropriate coursework or upon demonstration of skill levels which will reasonably assure success in college-level courses, request reinstatement to proceed with college-level coursework by filing a petition and receiving approval from the Academic Council.

Note: Only one English (or ESL) course below the transferable freshman composition may be used towards the Associate Degree.

Scholarship Requirement

Students must maintain a minimum overall grade point average of 2.0 ("C" average) in all college course work.

Residence Requirement

Students must complete a minimum of 12 semester units at Butte College to obtain an AA/AS degree, a minimum of 6 semester units at Butte College to obtain a Certificate of Achievement.

General Education Philosophy and Student Learning Outcomes

General Education at Butte College involves much more than merely the acquisition of knowledge: it also involves utilization of that knowledge to solve problems, reach academic and career goals, and achieve a deeper understanding of one's self. More than that, the process promotes learning as a lifelong endeavor, one that will continue long after education goals are achieved. General Education at Butte College is rooted in its mission to "prepare students to be productive members of a diverse, sustainable, and ever-changing global society” and provide “career and transfer pathways for students to become life-long learners and critical thinkers through the mastery of basic skills, workforce training, and the achievement of degrees and certificates.”

General Education at Butte College is designed to familiarize students with the basic content and methodology of the major areas of knowledge. It consists of lower-division introductory courses which, when taken as part of the General Education pattern, provide a coherent and integrated program of study through which students can achieve measurable outcomes. All students are encouraged to seek the assistance of an academic counselor in developing a plan for completing General Education requirements.

The College's Philosophy and Outcomes draw heavily from the Lumina Foundation's "Degree Qualifications Profile," which sees general education as "the foundation for participation in work, life, and citizenship both at home and in the world."

Upon completion of General Education requirements for the Associate's degree, students will be able to:

- describe how existing knowledge or practice is advanced, tested, and revised;
- describe and examine diverse perspectives on key debates and their significance both within the field and in society;
- illustrate core concepts while executing analytical, practical, or creative tasks;
- assemble evidence relevant to discipline-specific as well as societal problems, describe the significance of the evidence, and use the evidence in analysis of these problems;
- select and apply recognized methods of the field in interpreting characteristic discipline-based problems;
- describe the ways in which disciplines define, address, and interpret the importance of contemporary challenges or problems relating to environment, culture, and society.

A. Natural Science

Upon successful completion of a course in the Natural Sciences area, the student will be able to:

- investigate and describe specific evidence used to construct individual scientific principles;
- use scientific principles to explain well-established fundamental biological or physical phenomena and analyze their underlying components;
- utilize scientific methodologies when solving a problem.

B. Social and Behavioral Sciences
Upon successful completion of a course in the Social and Behavioral Sciences area, the student will be able to:
- identify major theoretical orientations in the social and behavioral sciences and describe basic concepts regarding human behavior and thought;
- utilize critical thinking skills to analyze, evaluate, and make decisions concerning complex contemporary issues and the interactions among individuals and across societies;
- apply discipline-specific principles to the development of interpersonal, occupational, and social skills suited to a diverse world.

C. Humanities
Upon successful completion of a course in the Humanities area, the student will be able to:
- describe the ways in which arts, literature, philosophy, history or language reflect historical, intellectual and cultural contexts, as well as aesthetic values;
- employ concepts and theories of the humanities to analyze and evaluate cultural artifacts;
- apply the analytical tools of the humanities in order to construct meaning in personal, cultural, and social contexts.

D. English Composition
Upon successful completion of a course in the English Composition area, the student will be able to:
- find, evaluate, analyze and synthesize appropriate primary and secondary sources in support of academic writing;
- write a unified, well-developed essay with an arguable thesis, persuasive academic support, and clear awareness of audience and purpose.

E. Communication and Analytical Thinking
Upon successful completion of a course in the Communication and Critical Thinking area, the student will be able to:
- identify and discuss the role communication or analytical thinking plays in academic, social, and professional endeavor;
- analyze and critically evaluate arguments and issues in terms of logical principles or other problem solving methodologies in the given discipline;
- construct and evaluate messages appropriate to particular communication situations relevant in the given discipline.

F. Self Integration and Physical Education
Upon successful completion of a course in the Self-Integration area, the student will be able to:
- demonstrate an understanding of themselves as lifelong learners, integrating psychological, social and physiological dimensions of self;
- articulate a broader understanding of people as integrated psychological, social and physiological beings;
- analyze concepts related to personal development in areas such as health and wellness, nutrition, interpersonal relationships, sexuality, self-management, implications of death and dying, and key relationships of humankind to the social and physical environment.

Competency Requirements for Graduation

A. Reading and Writing Competency
Upon successful completion of the Reading and Writing Competency Requirement, the student will be able to:
- write a unified, well-developed essay with an arguable thesis, persuasive academic support, and clear awareness of audience and purpose.

B. Mathematics Competency
Upon successful completion of the Mathematics Competency Requirement, the student will be able to:
- interpret and explain mathematical problems in verbal, numerical, symbolic and graphical settings;
- manipulate algebraic symbols and work a variety of algebra problems;
- translate problem situations into an appropriate representation and use that representation to solve the problem at hand;
- use a formula in a practical application to compute an outcome and determine if the outcome is reasonable.

C. Multicultural Competency
Upon successful completion of the Multicultural Competency Requirement, the student will be able to:
- recognize and describe the range of experiences and perspectives that exist across diverse groups and among the individuals that comprise them;
- recognize and describe shared values and experiences that unite people of diverse backgrounds;
- identify the knowledge, skills, and behaviors that promote effective professional, social, and/or personal experiences.

Academic Programs

See back insert for graphic guide

Program	ADT	AS/AA	CA	CC
Agriculture Business (AB)				
Agriculture Business, pg. 65	x	x	x	
Accounting (ACCT)				
Accounting, pg. 67		x	x	
Account Clerk, pg. 67				x
Tax Preparer, pg. 68				x
Agricultural Engineering Technology (AET)				
Mechanized Agriculture, pg. 69		x	x	
Heavy Equipment Operator Technician, pg. 69			x	
Agriculture Science (AGS)				
Agriculture and Natural Resources, pg. 71		x		
Agriculture Science, pg. 71		x		
Administration of Justice (AJ)				
Administration of Justice, pg. 72	x	x	x	
Court Personnel: Prelaw, pg.72		x	x	
Criminal Justice, pg. 73		x		
Administration of Justice-Law Enforcement (AJLE)				
Law Enforcement Academy-Basic, pg. 75		x	x	
Law Enforcement Academy-Basic/Fish & Wildlife Emphasis, pg. 75		x	x	
Law Enforcement Academy-Basic/State Parks Emphasis, pg. 75		x	x	
Allied Health (ALH)				
Public Health Science, pg. 78	x			
Anthropology (ANTH)				
Anthropology, pg. 79	x			
Art (ART)				
Arts, pg. 80		x		
Art History, pg. 80	x			
Ceramics, pg. 81		x	x	
Studio Arts, pg. 80	x			
Automotive Technology (AUT)				
Automotive Technology, pg. 83		x	x	
Automotive Technology - Honda (PACT), pg. 83		x	x	
Diesel Technology, pg. 84		x	x	
Business Computer Information Systems (BCIS)				
Business Information Worker, pg. 87		x	x	x
Legal Office Administration, pg. 87		x	x	x
Medical Office Administration, pg. 88		x	x	x
Basic Computer Competency, pg. 89				x

Program	ADT	AS/AA	CA	CC
Biology (BIOL)				
Biology, pg. 91	x	x		
Business (BUS)				
Business Administration, pg. 92	x	x		
Business Management, pg. 93		x	x	
Business on the Web, pg. 95				x
Human Resources, pg. 95				x
Marketing, pg. 93		x	x	
Retail Management, pg. 94			x	
Small Business Institute, 95				x
Small Business/Entrepreneurship, pg. 93		x		
Child Development and Family Relations (CDF)				
Child and Adolescent Development, pg. 97	x			
Child Development, pg. 98		x		
Early Childhood Education, pg. 97	x	x	x	x
Child and Family Studies, pg. 99				x
Chemistry (CHEM)				
Chemistry, pg. 100		x		
Communication Studies (CMST)				
Communication Studies, pg. 101	x	x		
Construction (CNST)				
Applied Construction, pg. 102			x	
Construction Management, pg. 102		x	x	
Applied Framing Construction, pg. 103				x
Applied Concrete Construction, pg. 103				
Cosmetology (COS)				
Cosmetology, pg. 104		x	x	
Cosmetology to Barbering Crossover, pg. 104				x
Esthetician, pg. 105				x
Manicuring, pg. 105				x
Computer Science (CSCI)				
Computer Animation and Game Development, pg. 106		x		
Computer Information Systems, pg. 107		x		
Computer Programming, pg. 107		x	x	
Computer Science, pg. 106	x	x		
Computer Support Technician, pg. 109				x
Computer System Administration, pg. 108		x	x	
Microsoft Server Administration, pg. 109				x
Cisco Network Administration, pg. 109				x

Academic Programs

Program	ADT	AS/AA	CA	CC
Drafting (DFT)				
Drafting and CAD Technology, pg. 110		x	x	
3D Mechanical Applications, pg. 110				x
Architectural Drafting & Modeling, pg. 111				x
Drama (DRAM)				
Theatre Arts, pg. 112	x			x
Economics (ECON)				
Economics, pg. 113	x			
Education (EDUC)				
Elementary Teacher Education, pg. 114	x			
Liberal Studies, pg. 1114		x		
Liberal Studies: Bilingual Pattern, pg. 115		x		
Para Eductation, pg. 115				x
Environmental Horticulture (EH)				
Agriculture Plant Science, pg. 116	x			
Environmental Horticulture, pg. 116		x	x	
Landscape/Turfgrass Technician, pg. 117			x	
Nursery Technician, pg. 117			x	
Plant Protection, pg. 117			x	
Emergency Medical Services (EMS)				
Paramedic, pg. 119		x	x	
Emergency Medical Responder (EMR), pg. 119				x
Emergency Medical Technician (EMT), pg. 120				x
English (ENGL)				
English, pg. 121	x			
Language Arts, pg. 121		x		
Engineering (ENGR)				
Civil Engineering Technology, pg. 123		x	x	
Engineering, pg. 123		x		
English as a Second Language (ESL)				
Noncredit Certificate of Competency in ESL, pg. 125				x
Noncredit Certificate of Completion in VESL, pg. 125				x
Fashion (FASH)				
Fashion Merchandising, pg. 126		x	x	
Clothing Construction, pg. 126				x
Fashion Design, pg. 127				x

Program	ADT	AS/AA	CA	CC
Foods and Nutrition (FN)				
Nutrition & Dietetics, pg. 128	x			
Nutrition & Food Science, pg. 128		x		
Fire Science (FSC)				
Fire Technology, pg. 129		x	x	
Firefighter I Academy, pg. 129			x	
BASIC 32, pg. 130				x
Incident Command-Finance, pg. 130				x
Incident Command-Logistics, pg. 130				x
Incident Command-Operations, pg. 131				x
Incident Command-Planning, pg. 131				x
Geography (GEOG)				
Geography, pg. 132	x			
Geographic Information System, pg. 132				x
Geology (GEOL)				
Geology, pg. 133	x			
Health Information Management (HIM)				
Medical Coding, pg. 134			x	
History (HIST)				
History, pg. 135	x			
Honors (HON)				
Honors Program, pg. 136			x	
Heating, Ventilation, and Air Conditioning (HVAC)				
Commercial HVACR, pg. 137			x	
HVACR, pg. 137		x	x	
Residential HVACR, pg. 138			x	
HVACR Level I, pg. 139				x
HVACR Level II, pg. 139				x
HVACR Level III, pg. 139				x
HVACR Level IV, pg. 139				x
Journalism (JOUR)				
Journalism, pg. 140	x			
Kinesiology (KIN)				
Kinesiology, pg. 141	x	x		
Physical Education: Exercise Physiology, pg. 142		x		
Mathematics (MATH)				
Mathematics, pg. 143	x	x		
Multicultural and Gender Studies (MCGS)				
Multicultural and Gender Studies, pg. 144		x		

Academic Programs

Program	ADT	AS/AA	CA	CC
Manufacturing (MFG)				
Advanced Manufacturing, pg. 145		x	x	
Manufacturing Operations, pg. 146			x	
Production Management, pg. 146			x	
Advanced Manufacturing Level I, pg. 147				x
Advanced Manufacturing Level II, pg. 147				x
Advanced Manufacturing Level III, pg. 147				x
Advanced Manufacturing Level IV, pg. 147				x
Multimedia Studies Program (MSP)				
Multimedia Studies, pg. 149		x	x	
2D Animation and Games, pg. 150				x
Graphic Design, pg. 149		x		
Graphic Design for Print, pg. 150		x		
Music (MUS)				
Music, pg. 151	x			
Recording Arts, pg. 151		x	x	x
Recording Arts for Musicians, pg. 152				x
Natural Resources (NR)				
Natural Resources Management, pg. 153		x		
Ecological Restoration, pg. 153				x
Forestry Technician, pg 153				x
Parks and Recreation, pg. 154				x
Wildlife Technician, pg. 154				x
Nursing (NSG)				
Licensed Vocational Nursing, pg. 155		x	x	
Registered Nursing: LVN to ADN, pg. 156		x	x	
Registered Nursing, pg. 155		x		
Acute Care Nurse Assistant, pg. 158				x
Home Health Aide, pg. 158				x
Certified Nursing Assistant, pg. 158				x
Occupational and Life Skills (OLS)				
Noncredit Certificate of Completion in Occupational & Life Skills, pg. 160				x
Photography (PHO)				
Professional Photography, pg. 161				x
Photography, pg. 161		x		
Physics (PHYS)				
Physics, pg. 162	x	x		
Political Science (POS)				
Political Science, pg. 163	x			
Leadership & Civic Engagement, pg. 163				x

Program	ADT	AS/AA	CA	CC
Physical Science (PSC)				
Environmental Science, pg. 164		x		
Physical Science, pg. 164		x		
Psychology (PSY)				
Psychology, pg. 165	x			
Peace and Global Studies, pg. 165			x	x
Real Estate (RLS)				
Real Estate, pg. 167		x	x	
Real Estate Appraisal, pg. 167				x
Real Estate Sales, pg. 168				x
Respiratory Therapy (RT)				
Respiratory Care, pg. 169		x	x	
Radio-TV-Film (RTVF)				
Film, Television and Electronic Media, pg. 171	x			
Radio-TV-Film: Video Production, pg. 171		x	x	
Mass Media Studies, pg. 172				x
Single Camera Video Production, pg. 172				x
Sociology (SOC)				
Social and Behavioral Science, pg. 173		x		
Sociology, pg. 173	x			
Sustainability Studies, pg. 174				x
Spanish (SPAN)				
Spanish, pg. 175	x			
Special Education Training (SPED)				
Special Education for Instructional Service Agreement Instructors, pg. 1176				x
Welding (WLD)				
Welding Technology, pg. 177		x	x	
PowerPathway Gas Pipeline Welding, pg. 178				x
Welding Technology Level I, pg. 178				x
Welding Technology Level II, pg. 178				x
Welding Technology Level III, pg. 179				x

Key

ADT: Associate's Degree for Transfer
AA/AS: Associate's Degree
CA: Certificate of Achievement
CC: Certificate

2019-2020 Butte College Local GE Guide
AA/AS Degree

REQUIREMENTS:

1. A minimum of sixty (60) semester units of college work (courses numbered 1-199) must be completed.
2. A minimum overall grade point average of 2.0 (C average or better).
3. A minimum of twelve (12) semester units must be completed at Butte College. Units earned through Credit by Examination do not apply toward this residency requirement.
4. Competency Requirements:
   A. Reading & Writing Competency:
      1) Satisfactory (P or C or better) completion of ENGL 2 or ENGL 3 (or equivalent)

   B. B. Mathematics Competency:
      1) Satisfactory (P or C or better) completion of one of the following course: MATH 110, MATH 116, MATH 118, MATH 124, or equivalent* OR
      2) Satisfactory (P or C or better) completion of a MATH course that requires at least one of the above listed courses as a prerequisite**
      *It is possible that a student may meet the math competency with previous work following our placement procedures (See section on AB705 Placement Guidance). The student must take one course from Area E even if the student meets the math competency requirement through our placement procedure.
      **MATH 4, 5, 11, 12, 13, 18, 20, 26, 30, 31, 32, 40 and 42 meet this criteria

   C. Multicultural Breadth competency. Completion of one approved multicultural course or program.
      AGS 10, AJ 2, AJ 14, AJLE 130, AJLE 140, AJLE 141, ALH 6, ANTH 4, ANTH 4H, ANTH 13, ANTH 16, ANTH 18, ANTH 32, ANTH 33, ANTH 34, ART 1, ART 3, ART 6, BUS 35, BUS 64, CDF 14, CDF 57, CDF 59, CMST 9, CSL 20, ENGL 26, ENGL 35, ENGL 45, ENGL 47, ENGL 53H, GEOG 4, GEOG 8, GEOG 10, GEOG 12, HIST 3, HIST 5, HIST 6, HIST 18, HIST 20, HIST 30, NSG 41, NSG 78, MCGS 8, MCGS 10, MCGS 32, MCGS 36 , MCGS 38, MUS 9, NR 26, PHIL 18, PSY 34, PSY 41, NSG 78, RT 165, SOC 4, SOC 20, SOC 30, SOC 30H, SPAN 14, SPAN 16
      NOTE: *Within the GE pattern, multicultural courses are marked with an* †.
      NOTE: *Comparable coursework at other accredited institutions may be substituted. Waivers are not permissible to satisfy Competency Requirements A, B, and C. However, certain students with documented (learning) disabilities directly related to the competency area may, if eligible, appeal for a substitution of a specific competency requirement (course).*

5. Major Requirement: Complete one of the established majors. Please refer to the Butte College catalog index for a listing of all majors. **Each course in the major must be completed with a "C" grade or better**.
6. General Education Requirements: Complete a minimum of twenty (20) semester units of general education from the approved list according to the following pattern:
   A. Natural Science - Area A: One three-unit course minimum.

   B. Social and Behavioral Sciences - Area B: One three-unit course minimum.

   C. Humanities - Area C: One three-unit course minimum.

   D. English Composition - Area D: One three-unit course minimum.

   E. Communication and Analytical Thinking - Area E: One three-unit course minimum.

   F. Self-Integration and Kinesiology - Area F: One Self-Integration course and two Kinesiology (KIN) activity courses (4-5 units). The Self-Integration portion of Area F is waived for students completing RT Program, Paramedic, LVN, RN and ADN degrees; however, 20 total GE units are required for graduation.
   NOTE: The DD214 may be used to satisfy Area F.
7. Certification of coursework for Butte College General Education coursework will be honored provided that a course was on the college's approved Butte College General Education list when it was completed.
8. Application Requirement: Each student must file an Application for Graduation with a counselor by the published deadline

LIMITATIONS TO DEGREE REQUIREMENTS

1. A maximum of eight (8) semester units optionally graded Credit (P) may be counted toward Associate Degree requirements.*
2. Only one English (or ESL) course below transferable freshman composition may be used towards the Associate Degree.*

***NOTE: These limitations are not subject to waivers.**

2019-2020 Butte College AA/AS Degree Requirements

Courses listed in more than one Area can only be counted in one Area

AREA A – NATURAL SCIENCE
One course, 3 unit minimum
*NOTE: Meets Natural Science only when taken with corresponding lecture course.
°NOTE: Meets Natural Science only when taken with corresponding lecture course.

AGS 20	Plant Science (3)°
AGS 30	Ecology of Insect and Disease Management (3)
AGS 40	Introduction to Animal Science (3)°
AGS 50	General Soils (4)°
ANTH 2	Physical Anthropology (3)
ANTH 2H	Honors Physical Anthropology (3)
BIOL 1	Introduction to Biology (4)°
BIOL 2	Introduction to Human Biology (3)
BIOL 5	Ecology and Field Biology (4)°
BIOL 7	Sustaining Life on Earth (3)
BIOL 9	Current Issues in Biology (3)
BIOL 9H	Honors Current Issues in Biology (3)
BIOL 10	Survey of Human Systems (4)°
BIOL 15	Introduction to Microbiology (5)°
BIOL 20	Human Anatomy (4)°
BIOL 21	Human Physiology (4)°
BIOL 41	Cell and Molecular Biology (5)°
BIOL 42	Organismal Biology (5)°
BIOL 43	Ecology and Evolution (5)°
CHEM 1	General Chemistry I (5)°
CHEM 2	General Chemistry II (5)°
CHEM 21	Organic Chemistry I (5)°
CHEM 22	Organic Chemistry II (5)°
CHEM 51	Elementary Inorganic Chemistry (5)°
CHEM 52	Elementary Organic and Biochemistry (4)°
FN 2	Nutrition (3)•
GEOG 2	Physical Geography (3)
GEOG 3	Physical Geography Lab (1)*
GEOL 32	Physical Geology with Lab (4)°
GEOL 34	Historical Geology with Lab (4)°
NR 28	Environmental Management (3)
PHYS 10	Concepts of Physics (3)
PHYS 11	Concepts of Physics Laboratory (1)*
PHYS 21	College Physics I (4)°
PHYS 22	College Physics II (4)°
PHYS 41	Physics for Scientists and Engineers I (4)°
PHYS 42	Physics for Scientists and Engineers II (4)°
PHYS 43	Physics for Scientists and Engineers III (4)°
PSC 10	Introduction to Environmental Science (4)°
PSC 11	Earth Science with Lab (4)°
PSC 12	Concepts in Physical Science (4)°
PSC 20	Introductory Physical Science (3)
PSC 21	Introductory Physical Science Laboratory (1)*
PSC 30	Introductory Astronomy (4)°
PSC 30H	Honors Introductory Astronomy (4)°
PSC 50	Introduction to Weather (3)
PSC 51	Weather Lab (1)*
PSC 53	Natural Disasters and Hazards (3)
PSY 3	Introduction to Biological Psychology (3)

AREA B – SOCIAL & BEHAVIORAL SCIENCES
One course, 3 unit minimum

AGS 10	World Food and Hunger Issues (3)†
AJ 1	Criminology (3)
AJ 2	Administration of Justice (3)
ANTH 4	Cultural Anthropology (3)†
ANTH 4H	Honors Cultural Anthropology (3)†
ANTH 13	Magic, Witchcraft and Religion (3)†
ANTH 14	Language and Culture (3)
ANTH 16	Archeology and Ancient Societies (3)†
ANTH 18	World Cultures (3)†
ANTH 32	Native Americans (3)†
ANTH 33	Ancient Mesoamerica (3) †

AREA B – SOCIAL & BEHAVIORAL SCIENCES (continued)

ANTH 34	Native Americans Today (3)†
ASL 10	Introduction to Deaf Culture (3)
BUS 20	Introduction to Business (3)
CDF 12	Child, Family and Community (3)
CDF 14	Child Growth and Development (3)†•
CMST 9	Intercultural Communication (3)†
CMST 10	Interpersonal Communication (3)
CMST 13	Gender and Communication (3)
ECON 2	Principles of Macroeconomics (3)
ECON 4	Principles of Microeconomics (3)
ECON 20	Economic History of the U.S. (3)•
ECON 20H	Honors Economic History of the U.S. (3)•
ECON 25	Introduction to Economics (3)
ECON 35	Introduction to Environmental Economics (3)
GEOG 4	Cultural Geography (3)†
GEOG 8	World Regional Geography (3)†
GEOG 10	Geography of California (3)†
GEOG 12	The American West (3)†
HIST 3	World History to 1500 (3)†•
HIST 5	World History since 1500 (3)†•
HIST 6	Modern World History (3)†
HIST 8	United States History to 1877 (3)•
HIST 10	United States History—1877 to Present (3)•
HIST 18	Multicultural History of the United States (3)†•
HIST 20	Political History of the Middle East (3)†
HIST 26	Men and Women in American History (3)•
HIST 30	History of the African American (3)†•
HUM 17	Comparative European Studies (3)•
MCGS 8	Introduction to Multicultural and Gender Studies (3)†
MCGS 10	Introduction to Women's Studies (3) †
MCGS 32	Introduction to African American Studies (3)†
MCGS 36	Introduction to Chicano American Studies (3)†
MCGS 38	Introduction to Asian American Studies (3)†
NR 26	Environmental World (3) †
POS 2	United States Government (3)
POS 3	Comparative Politics (3)
POS 12	California State and Local Government (3)
POS 16	Vital Political Problems (3)
POS 18	International Relations (3)
PSY 1	Principles of Psychology (3)
PSY 1H	Honors Principles of Psychology (3)
PSY 6	Abnormal Psychology (3)
PSY 7	Introduction to Research Methods in Psychology (3)
PSY 11	Peace Psychology (3)
PSY 15	Lifespan Psychology (3)•
PSY 16	Psychology of Women (3)
PSY 24	Psychology of Sleep, Dreams and Archetypes (3)
PSY 41	Socio-Cultural Context of Psychological Develop. (3)†
RTVF 12	Mass Media and Society (3)
SOC 2	Principles of Sociology (3)
SOC 4	Modern Social Problems (3)†
SOC 5	Our Sustainable Future (3)
SOC 8	Intro. to Marriage, Family and Intimate Relationships (3)•
SOC 10	Introduction to Crime and Society (3)
SOC 14	Sociology of Gender (3)•
SOC 20	Introduction to Race and Ethnicity (3)†
SOC 30	Sociology of Inequality (3)†
SOC 30H	Honors Sociology of Inequality (3)†

AREA C – HUMANITIES
One course, 3 unit minimum

ANTH 17	Introduction to Linguistics (3)
ART 1	Art Appreciation (3)†
ART 2	Art History Survey I (3)
ART 2H	Honors Art History Survey I (3)
ART 3	Asian Art History Survey (3)†

2019-2020 Butte College AA/AS Degree Requirements

Courses listed in more than one Area can only be counted in one Area

AREA C – HUMANITIES (continued)

ART 4H	Honors Art History Survey II (3)
ART 5	Survey of Modern Art (3)
ART 6	African, Oceanic, and Native American Art (3)†
ASL 1	American Sign Language I (4)
ASL 2	American Sign Language II (4)
ASL 3	American Sign Language III (4)
CHIN 1	First Semester Chinese (4)
CHIN 2	Second Semester Chinese (4)
CMST 6	Oral Interpretation (3)
DRAM 2	Theatre Arts Appreciation (3)
DRAM 4	Creative Drama and Theatre for Children (3)
DRAM 8	Principles of Acting I (3)
ECON 20	Economic History of the U.S. (3)•
ECON 20H	Honors Economic History of the U.S. (3)•
ENGL 4	Introduction to Literature (3)
ENGL 6	Creative Writing (3)
ENGL 8	British Literature I (3)
ENGL 10	British Literature II (3)
ENGL 14	U.S. Literature I (3)
ENGL 15	Film as Literature (3)
ENGL 16	U.S. Literature II (3)
ENGL 20	Introduction to Poetry (3)
ENGL 21	Mythology (3)
ENGL 25	Introduction to Shakespeare (3)
ENGL 26	Queer Film and Literature (3)†
ENGL 35	Cross-Cultural Film and Literature (3)†
ENGL 45	Latino Literature and its Latin American Roots (3)†
ENGL 47	Native American Literature (3)†
ENGL 52H	Honors Great Works of Literature (3)
ENGL 53H	Honors World Literature (3)†
FASH 74	Historic Costume (3)
FREN 1	First Semester French (4)
FREN 2	Second Semester French (4)
GERM 1	First Semester German (4)
GERM 2	Second Semester German (4)
GERM 3	Third Semester German (4)
GERM 4	Fourth Semester German (4)
HIST 3	World History to 1500 (3) †•
HIST 5	World History since 1500 (3)†•
HIST 8	United States History to 1877 (3)•
HIST 10	United States History—1877 to Present (3)•
HIST 18	Multicultural History of the United States (3)†•
HIST 26	Men and Women in American History (3)•
HIST 30	History of the African American (3)†•
HUM 17	Comparative European Studies (3)•
HUM 22	Greco-Roman Cultures (3)
ITAL 1	First Semester Italian (4)
ITAL 2	Second Semester Italian (4)
JPN 1	First Semester Japanese (4)
JPN 2	Second Semester Japanese (4)
JPN 3	Third Semester Japanese (4)
JPN 4	Fourth Semester Japanese (4)
LATN 1	First Semester Latin (4)
LATN 2	Second Semester Latin (4)
LATN 3	Third Semester Latin (4)
MUS 1	Music Appreciation (3)
MUS 3	Music Fundamentals (3)
MUS 5	American Popular Music (3)
MUS 6	Women and Music (3)
MUS 7	Jazz Appreciation (3)
MUS 9	World Music (3) †
MUS 10	Music Theory I (3)
PHIL 2	Introduction to Philosophy (3)
PHIL 5	Environmental Ethics (3)
PHIL 16	Western Religions (3)
PHIL 18	Eastern Religions (3)†
PHIL 58	Teaching about Religion (3)
PHO 1	History of Photography (3)
RTVF 13	Exploring Contemporary Television (3)

AREA C – HUMANITIES (continued)

RTVF 15	Introduction to Film (3)
SPAN 1	First Semester Spanish (4)
SPAN 2	Second Semester Spanish (4)
SPAN 3	Third Semester Spanish (4)
SPAN 4	Fourth Semester Spanish (4)
SPAN 14	Hispanic Short Stories (3)†
SPAN 16	Hispanic Film (3)†

AREA D – ENGLISH COMPOSITION

One course, 3 unit minimum

ENGL 2	Reading and Composition (3)
ENGL 3	Reading Composition Intensive (4)

AREA E – COMMUNICATION & ANALYTICAL THINKING

One course, 3 unit minimum

CMST 2	Public Speaking (3)
CMST 2H	Honors Public Speaking (3)
CMST 4	Small Group Communication (3)
CMST 14	Argumentation and Debate (3)
CSCI 2	Business and Computer Information Systems (3)
CSCI 4	Intro. to Programming Concepts and Methodologies (3)
CSCI 20	Programming and Algorithms I (3)
DFT 4	Print Reading for Construction and Architecture (3)
ENGL 11	Communication and Critical Thinking (3)
MATH 4	Concepts in Mathematics for Teachers I (3)
MATH 5	Concepts in Mathematics for Teachers II (4)
MATH 7	Formal Logic and Writing (3)
MATH 11	Nature of Mathematics (3)
MATH 12	Mathematics for Business Decisions (Finite Mathematics)(3)
MATH 13	Survey of Calculus (4)
MATH 17	Investigative and Introductory Statistics (4)
MATH 18	Introduction to Statistics (3)
MATH 20	Trigonometry (3)
MATH 26	College Algebra (4)
MATH 30	Analytic Geometry and Calculus I (5)
MATH 31	Analytic Geometry and Calculus II (4)
MATH 32	Analytic Geometry and Calculus III (4)
MATH 40	Differential Equations (4)
MATH 42	Linear Algebra (3)
MATH 110	Geometry (3)
MATH 116	Accelerated Algebra (6)
MATH 118	Pre-Statistics and Pre-Liberal Arts Math (4)
MATH 124	Intermediate Algebra (5)
PHIL 6	Introduction to Logic (3)
PHIL 8	Methods of Argument (3)

AREA F – SELF-INTEGRATION & KINESIOLOGY

One 3-unit course and two Kinesiology activity courses

The DD 214 may be used to satisfy this requirement

BUS 62	Money & Happiness: Cultural, Psych., and Economic Factors (3)
CDF 14	Child Growth and Development (3)•
CLP 30	Career Life Planning (3)
CSL 20	College & Life Success (3)†
ENGL 31	Existential Literature: A Literary Approach to Self Integ. (3)
FN 2	Nutrition (3)
FN 8	Maternal and Child Nutrition (3)•
HLTH 2	Health and Wellness (3)
HLTH 10	Leisure for Healthy Living (3)
LM 40	Life Management (3)
POS 92	Exploring Leadership (3)
PSY 15	Lifespan Psychology (3)•
PSY 20	Personal and Social Growth and Wellness (3)
PSY 34	Eastern Psychology: Traditions and Practices (3)†
PSY 36	Psychology of Meditation and Mindfulness (3)
SOC 8	Intro. to Marriage, Family and Intimate Relationships (3)•
SOC 14	Sociology of Gender (3

Select two Kinesiology (KIN) Activity Courses (.5–1.5)

†NOTE: Meets Multicultural Breadth competency

•NOTE: Courses listed in more than one area can only be counted in one area

2019-2020 Butte College Guide
CSU General Education Requirements

IMPORTANT NOTE: Certification of coursework for CSU General Education will be honored provided that a course was on a college's approved CSU General Education list when it was completed. (CSU Review, May 1993)

Due to the complexity of the requirements and the potential for inappropriate course selection, students are advised to work with a Butte College counselor when developing their educational program.

CSU ADMISSION REQUIREMENTS

To meet the California State University (CSU) transfer admission requirements, students must have all of the following:

- At least 60 transferable units (Transferable courses at Butte College are numbered 1-99)
- A transferable course GPA of at least 2.0
- Within the 60 transferable units, at least 30 units of General Education courses with a grade of C or better in each course.
- The 30 required General Education units must include areas A1, A2, A3, and B4 with a grade of C- or better in each.

As admission to CSU campuses becomes more competitive, students need to understand the importance of filing their application during the priority filing period. (Consult a counselor for those dates.) Completion of all lower division preparation and a strong grade point average are important to students applying to impacted schools and competitive majors. Applications and application information can be accessed at **www.calstate.edu/apply**.

OVERVIEW OF REQUIREMENTS FOR THE BACHELOR'S DEGREE

General Education (GE)

These courses offer an opportunity to broaden one's awareness, discover academic interests, and develop academic skills. The selection of courses to meet this requirement should be influenced by the major(s) and other programs you wish to consider. The California State University requires 48 units of General Education coursework in most bachelor's degree programs, to include a minimum of 39 lower-division (freshman-sophomore level) and a minimum of nine upper-division (junior-senior level) units. CSU students have the option of completing CSU General Education requirements or the Intersegmental General Education Transfer Curriculum (IGETC). Courses used for CSU GE must appear on the GE list for the academic year the course was taken.

Students should consult with their Butte College counselor to determine which GE pattern is appropriate for them based on their educational goals and their transfer school’s admission requirements.

Major

A major consists of a group of courses that emphasizes a depth of study in a particular field. Majors may require as few as 30 semester units or as many as 100 semester units. Certain majors require courses that also meet CSU GE requirements. Courses generally may be used for both purposes. Individual campuses may have limitations as to the number of courses that can be used in this way. To be as competitive as possible students should follow the requirements for the campuses and majors they are interested in. See Assist.org for more information. Some high-unit majors have modifications to GE requirements. For more information see the “Majors with Important Modifications to General Education Requirements” section of the CSU Chico catalog at **http://catalog.csuchico.edu/viewer/17/GENED/GEMAJORMOD.html**. Please note that GE modifications at CSU Chico may not be the same for all CSUs. Careful course planning provides the greatest opportunity for maximizing options within a bachelor's degree program.
NOTE: The DD214 may be used to satisfy Area E

Electives

The number of elective units is dependent on the units required by a student's major. Electives can be used to complete a second major, a minor, credential requirements, or other personal educational goals.

U.S. History, Constitution, and American Ideals

To provide an understanding and knowledge of U.S. history and government, the CSU requires students to complete coursework or pass examinations to demonstrate competency in this area.

2019-2020 CSU General Education Certification List

AREA A – ENGLISH LANGUAGE, COMMUNICATION AND CRITICAL THINKING
Three courses, 9 semester units, with at least one course each from A1, A2, and A3

A1 – Oral Communication

CMST 2	Public Speaking (3)
CMST 2H	Honors Public Speaking (3)
CMST 4	Small Group Communication (3)

A2 – Written Communication

ENGL 2	Reading and Composition (3)
ENGL 3	Reading and Composition Intensive (4)

A3 – Critical Thinking

CMST 14	Argumentation and Debate (3)
ENGL 11	Communication and Critical Thinking (3)
MATH 7	Formal Logic and Writing (3)
PHIL 6	Introduction to Logic (3)
PHIL 8	Methods of Argument (3)

AREA B – SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING
At least three courses, 9 semester units minimum, with one course each from B1, B2, and B4. The B3 requirement is met with the completion of a laboratory course or laboratory component from B1 or B2. Courses that meet this requirement are marked with a " ° ". When listed next to a lecture course, the adjoining laboratory course must be taken for certification.

B1 – Physical Science

AGS 50°	General Soils (4)
CHEM 1°	General Chemistry I (5)
CHEM 2°	General Chemistry II (5)
CHEM 21°	Organic Chemistry I (5)
CHEM 22°	Organic Chemistry II (5)
CHEM 51°	Elementary Inorganic Chemistry (5)
CHEM 52°	Elementary Organic and Biochemistry (4)
GEOG 2	Physical Geography (3)
GEOG 2/3°	Physical Geography with Lab (4)
GEOL 32°	Physical Geology with Lab (4)
GEOL 34°	Historical Geology with Lab (4)
PHYS 10/11°	Concepts of Physics with Lab (4)
PHYS 21°	College Physics I (4)
PHYS 22°	College Physics II (4)
PHYS 41°	Physics for Scientists and Engineers I (4)
PHYS 42°	Physics for Scientists and Engineers II (4)
PHYS 43°	Physics for Scientists and Engineers III (4)
PSC 10°	Introduction to Environmental Science (4)
PSC 11°	Earth Science with Lab (4)
PSC 12°	Concepts in Physical Science (4)
PSC 20/21°	Introductory Physical Science with Lab (4)
PSC 27	Survey of the Universe (3)
PSC 30°	Introductory Astronomy (4)
PSC 30H°	Honors Introductory Astronomy (4)
PSC 50/51°	Introduction to Weather with Lab (4)
PSC 53	Natural Disasters and Hazards (3)

B2 – Life Science

AGS 20°	Plant Science (3)
AGS 40°	Introduction to Animal Science (3)
ANTH 2	Physical Anthropology (3)
ANTH 2H	Honors Physical Anthropology (3)
BIOL 1°	Introduction to Biology (4)
BIOL 2	Introduction to Human Biology (3)
BIOL 5°	Ecology and Field Biology (4)
BIOL 7	Sustaining Life on Earth (3)
BIOL 9	Current Issues in Biology (3)
BIOL 9H	Honors Current Issues in Biology (3)
BIOL 10°	Survey of Human Systems (4)
BIOL 15°	Introduction to Microbiology (5)
BIOL 20°	Human Anatomy (4)
BIOL 21°	Human Physiology (4)
BIOL 41°	Cell and Molecular Biology (5)
BIOL 42°	Organismal Biology (5)
BIOL 43°	Ecology and Evolution (5)
PSY 3	Introduction to Biological Psychology (3)

B3 – Laboratory Activity
The B3 requirement is met with the completion of a laboratory course or laboratory component from B1 or B2. Courses that meet this requirement are marked with a " ° ". When listed next to a lecture course, the adjoining laboratory course must be taken for certification.

B4 – Mathematics/Quantitative Reasoning

MATH 4	Concepts in Mathematics for Teachers I (3)
MATH 5	Concepts in Mathematics for Teachers II (4)
MATH 11	Nature of Mathematics (3)
MATH 12	Mathematics for Business Decisions (Finite Mathematics) (3)
MATH 13	Survey of Calculus (4)
MATH 17	Investigative and Introductory Statistics (4)
MATH 18	Introduction to Statistics (3)
MATH 20	Trigonometry (3)
MATH 26	College Algebra (4)
MATH 30	Analytic Geometry and Calculus I (5)
MATH 31	Analytic Geometry and Calculus II (4)
MATH 32	Analytic Geometry and Calculus III (4)
MATH 40	Differential Equations (4)
MATH 42	Linear Algebra (3)

AREA C – ARTS AND HUMANITIES
Three courses, 9 semester units with at least one course each in C1 and C2, and the third course from C1 or C2.

C1 – Arts (Arts, Cinema, Dance, Music, Theater)

ART 1	Art Appreciation (3)**
ART 2	Art History Survey I (3)
ART 2H	Honors Art History Survey I (3)
ART 3	Asian Art History Survey (3) **
ART 4	Art History Survey II (3)
ART 4H	Honors Art History Survey II (3)
ART 5	Survey of Modern Art (3)
ART 6	African, Oceanic, and Native American Art History (3) **
CMST 6	Oral Interpretation (3)
DRAM 2	Theatre Arts Appreciation (3)
DRAM 8	Principles of Acting I (3)
MUS 1	Music Appreciation (3)
MUS 5	American Popular Music (3)
MUS 6	Women and Music (3)
MUS 7	Jazz Appreciation (3)
MUS 9	World Music (3)**
MUS 10	Music Theory I (3)
PHO 1	History of Photography (3)
RTVF 15	Introduction to Film (3)

C2 – Humanities (Literature, Philosophy, Languages other than English)

ANTH 17	Introduction to Linguistics (3)
ASL 1	American Sign Language I (4)
ASL 2	American Sign Language II (4)
ASL 3	American Sign Language III (4)
CHIN 1	First Semester Chinese (4)
CHIN 2	Second Semester Chinese (4)
ECON 20	Economic History of the U.S. (3)•
ECON 20H	Honors Economic History of the U.S. (3)•
ENGL 4	Introduction to Literature (3)
ENGL 6	Creative Writing (3)
ENGL 8	British Literature I (3)
ENGL 10	British Literature II (3)
ENGL 14	U.S. Literature I (3)
ENGL 15	Film as Literature (3)
ENGL 16	U.S. Literature II (3)
ENGL 20	Introduction to Poetry (3)
ENGL 21	Mythology (3)
ENGL 25	Introduction to Shakespeare (3)
ENGL 26	Queer Film and Literature (3)*
ENGL 35	Cross-Cultural Film and Literature (3)**
ENGL 45	Latino Literature and its Latin American Roots (3)*
ENGL 47	Native American Literature (3)*
ENGL 52H	Honors Great Works of Literature (3)
ENGL 53H	Honors World Literature (3)**
FREN 1	First Semester French (4)
FREN 2	Second Semester French (4)
GERM 1	First Semester German (4)
GERM 2	Second Semester German (4)
GERM 3	Third Semester German (4)
GERM 4	Fourth Semester German (4)
HIST 3	World History to 1500 (3)**
HIST 5	World History since 1500 (3)**
HIST 8	United States History to 1877 (3)•
HIST 10	United States History - 1877 to Present (3)•
HIST 18	Multicultural History of the United States (3)* •
HIST 26	Men and Women in American History (3)•

2019-2020 CSU General Education Certification List

C2 – Humanities (continued)

HIST 30	History of the African American (3)*•
HUM 17	Comparative European Studies (3)•
HUM 22	Greco-Roman Cultures (3)
ITAL 1	First Semester Italian (4)
ITAL 2	Second Semester Italian (4)
JPN 1	First Semester Japanese (4)
JPN 2	Second Semester Japanese (4)
JPN 3	Third Semester Japanese (4)
JPN 4	Fourth Semester Japanese (4)
LATN 1	First Semester Latin (4)
LATN 2	Second Semester Latin (4)
LATN 3	Third Semester Latin (4)
PHIL 2	Introduction to Philosophy (3)
PHIL 5	Environmental Ethics (3)
PHIL 16	Western Religions (3)
PHIL 18	Eastern Religions (3)**\
PHIL 58	Teaching About Religion (3)
RTVF 13	Exploring Contemporary Television (3)
SPAN 1	First Semester Spanish (4)
SPAN 2	Second Semester Spanish (4)
SPAN 3	Third Semester Spanish (4)
SPAN 4	Fourth Semester Spanish (4)
SPAN 14	Hispanic Short Stories (3)
SPAN 16	Hispanic Film (3)

AREA D – SOCIAL SCIENCES

Three courses, 9 semester units with courses from at least two disciplines

Administration of Justice

AJ 1	Criminology (3)

Agriculture

AGS 10	World Food and Hunger Issues (3)**

American Sign Language

ASL 10	Introduction to Deaf Culture (3)

Anthropology

ANTH 4	Cultural Anthropology (3)**
ANTH 4H	Honors Cultural Anthropology (3)**
ANTH 13	Magic, Witchcraft & Religion (3)**
ANTH 14	Language and Culture (3)
ANTH 16	Archaeology and Ancient Societies (3)**
ANTH 18	World Cultures (3)**
ANTH 32	Native Americans (3)*
ANTH 33	Ancient Mesoamerica (3)**
ANTH 34	Native Americans Today (3)*

Child Development

CDF 12	Child, Family and Community (3)
CDF 14	Child Growth and Development (3)*

Communication Studies

CMST 9	Intercultural Communication (3)*
CMST 10	Interpersonal Communication (3)
CMST 13	Gender and Communication (3)

Economics

ECON 2	Principles of Macroeconomics (3)
ECON 4	Principles of Microeconomics (3)
ECON 20	Economic History of the U.S. (3)
ECON 20H	Honors Economic History of the U.S. (3)
ECON 25	Introduction to Economics (3)
ECON 35	Introduction to Environmental Economics (3)

Geography

GEOG 4	Cultural Geography (3)**
GEOG 5	Economic Geography (3)**
GEOG 8	World Regional Geography (3)**
GEOG 10	Geography of California (3)*
GEOG 12	The American West (3)

History

HIST 3	World History to 1500 (3)**
HIST 5	World History since 1500 (3)**
HIST 6	Modern World History (3)
HIST 18	Multicultural History of the United States (3)*
HIST 20	Political History of the Middle East (3)**
HIST 30	History of the African American (3)*

Humanities

HUM 17	Comparative European Studies (3)

AREA D – SOCIAL SCIENCES (continued)

Multicultural and Gender Studies

MCGS 8	Introduction to Multicultural and Gender Studies (3)*
MCGS 10	Introduction to Women's Studies (3)*
MCGS 32	Introduction to African American Studies (3)*
MCGS 36	Introduction to Chicano American Studies (3)*
MCGS 38	Introduction to Asian American Studies (3)*

Natural Resources

NR 26	Environmental World (3)

Political Science

POS 2	United States Government (3)
POS 3	Comparative Politics (3)
POS 12	California State and Local Government (3)
POS 16	Vital Political Problems (3)
POS 18	International Relations (3)

Psychology

PSY 1	Principles of Psychology (3)
PSY 1H	Honors Principles of Psychology (3)
PSY 6	Abnormal Psychology (3)
PSY 7	Introduction to Research Methods in Psychology (3)
PSY 11	Peace Psychology (3)
PSY 15	Lifespan Psychology (3)
PSY 16	Psychology of Women (3)
PSY 41	Socio-Cultural Context of Psychological Development (3)*

Radio-TV-Film

RTVF 12	Mass Media and Society (3)

Sociology

SOC 2	Principles of Sociology (3)
SOC 4	Modern Social Problems (3)
SOC 5	Our Sustainable Future (3)
SOC 10	Introduction to Crime and Society (3)
SOC 14	Sociology of Gender (3)
SOC 20	Introduction to Race and Ethnicity (3)*
SOC 30	Sociology of Inequality (3)*
SOC 30H	Honors Sociology of Inequality (3)*

AREA E – LIFELONG LEARNING AND SELF-DEVELOPMENT

One course, 3 semester units

BUS 62	Money & Happiness: Cultural, Psych., and Economic Factors (3)
CLP 30	Career Life Planning (3)
CDF14	Child Growth and Development (3) (Effective Fall 2019)•
CSL 20	College & Life Success (3)
ENGL 31	Existential Literature: A Literary Approach to Self Integ. (3)
FN 2	Nutrition (3)
FN 8	Maternal and Child Nutrition (3)
HLTH 2	Health and Wellness (3)
HLTH 10	Leisure for Healthy Living (3)
LM 40	Life Management (3)
POS 92	Exploring Leadership (3)
PSY 15	Lifespan Psychology (3)
PSY 20	Personal and Social Growth and Wellness (3)
PSY 34	Eastern Psychology: Traditions and Practices** (3)
PSY 36	Psychology of Meditation and Mindfulness (3)
SOC 8	Introduction to Marriage, Family and Intimate Relationships (3)
SOC 14	Sociology of Gender (3)

U. S. HISTORY, CONSTITUTION, AND AMERICAN IDEALS

One course from each category

Category 1 – U.S. History (course selected can also count in category C2)

ECON 20	Economic History of the U. S. (3)
ECON 20H	Honors Economic History of the U. S. (3)
HIST 8	United States History to 1877 (3)
HIST 10	Unites States History—1877 to Present (3)
HIST 18	Multicultural History of the United States (3)•
HIST 26	Men and Women in American History (3)

Category 2 – Government (course selected can also count in Category D8)

POS 2	United States Government (3)
POS 12	California State and Local Government (3)

NOTE: CSU Chico requires all students to complete one course each in U.S. Diversity and Global Cultures. These courses also may meet General Education requirements.

*Meets CSU Chico U.S. Diversity Requirement

**Meets CSU Chico Global Cultures Requirement

• Courses listed in more than one area can only be counted in one area

2019-2020 Butte College UC Transfer Guide
IGETC General Education Requirements

IMPORTANT NOTE: Certification of coursework for IGETC will be honored by UC and CSU campuses provided that a course was on the college's approved IGETC list when it was completed. (IGETC Notes 1994)

Due to the complexity of the requirements and the potential for inappropriate course selection, students are advised to work with a Butte College Counselor when developing their educational program.

OVERVIEW OF REQUIREMENTS FOR UC ADMISSION

To be eligible for UC admission, students must fulfill both of the following:

- Complete 60 semester (90 quarter) units of UC transferable college credit. Check specific University of California and major for GPA requirements.
- To be competitive you must follow the requirements for major preparation at the University of California
- No more than 14 semester (21 quarter) units may be taken Pass/No Pass.*
- All GE courses must be completed with a grade of C or better.
- *If your college/university only awards Pass credit, you are not subject to this limitation for your attendance at that
- institution.

IGETC certification or completion of the following course pattern:
Two UC transferable college courses (3 semester or 4-5 quarter units) in English Composition/Critical Thinking;
One UC transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning;
Four UC transferable college courses (3 semester or 4-5 quarter units) chosen from at least two of the following subject areas: Arts and Humanities, Social and Behavioral Sciences, Physical and Biological Sciences

IGETC General Education

These courses offer and opportunity to broaden one's awareness, discover academic interests, and develop academic skills. The Intersegmental General Education Transfer Curriculum (IGETC) is a general education program that community college transfer students may use to fulfill lower division general education requirements in either the UC or the CSU system without the need, after transfer, to take additional lower-division general education courses. The IGETC pattern is most useful for students who want to keep their options open before making a final decision about transferring to a particular UC or CSU campus.

Foreign coursework from non-US regionally accredited institutions may not be used. Course credit earned on the basis of acceptable scores on Advanced Placement (AP) or International Baccalaureate (IB) exams can be applied toward IGETC certification (see the charts at the end of this chapter for a list of acceptable AP/IB courses and scores.)

Completion if IGETC does NOT guarantee admission, nor is it required for admission. Some students may be better served by taking courses, that fulfill the CSU General Education-Breadth requirements or the requirements of the UC campus or other colleges to which they plan to transfer. Students pursuing majors that require extensive lower-division major preparation may not find the IGETC option to be advantageous. Engineering & Architecture are examples of those majors. Schools of Engineering do not generally recommend the IGETC. Students planning to earn an AS-T in Biology may follow the IGETC for STEM GE pattern. See a counselor for degree planning.

Many private and out-of-state colleges and universities will accept the completed IGETC to meet their lower division General Education requirements. Below are examples of these institutions.

Arizona State University	Northern Arizona	Hawaii Pacific University	Western Oregon University
Biola University	Oregon State University	Chapman University	Woodbury University
California College for the Arts	University of San Francisco	Saint Mary's College of CA	University of Northern Colorado
Concordia University	Univ. of Nevada Reno	Washington State University	University of La Verne

Students who enroll at a UC campus, then enrolled at a California Community College and transfer to a different UC campus may use IGETC (students returning to the same UC campus cannot complete IGETC)

The University of California's new Transfer Pathways identify a single set of lower-division, pre-major preparation courses for 21 of UC's mostpopular majors. Refer to the following link for further pathways information: http://admission.universityofcalifornia.edu/transfer/preparation-paths/index.html

2019-2020 Butte College IGETC Certification List

Courses listed in more than one Category or Area (1-5) can only be counted in one Category or Area

AREA 1 – ENGLISH COMMUNICATION

1A – English Composition One course, 3 semester units

ENGL 2	Reading and Composition (3)
ENGL 3	Reading and Composition Intensive (4)

1B – Critical Thinking One course, 3 semester units

CMST 14	Argumentation & Debate (3)
ENGL 11	Communication and Critical Thinking (3)
MATH 7	Formal Logic & Writing (3)
PHIL 8	Methods of Argument (3)

1C – Oral Communication (CSU requirement only) One course, 3 semester units

CMST 2	Public Speaking (3)
CMST 2H	Honors Public Speaking
CMST 4	Small Group Communication (3)

AREA 2 – MATHEMATICAL CONCEPTS and QUANTITATIVE

One course, minimum 3 semester units required

2A – Math

MATH 12	Mathematics for Business Decisions (Finite Math.) (3)
MATH 13	Survey of Calculus (4)
MATH 17	Investigative and Introductory Statistics
MATH 18	Introduction to Statistics (3)
MATH 26	College Algebra (4)
MATH 30	Analytic Geometry and Calculus I (5)
MATH 31	Analytic Geometry and Calculus II (4)
MATH 32	Analytic Geometry and Calculus III (4)
MATH 40	Differential Equations (4)
MATH 42	Linear Algebra (3)

AREA 3 – ARTS and HUMANITIES

At least three courses, with one course from 3A and one course from 3B, and the third course from 3A or 3B. 9 semester units required

3A – Arts

ART 1	Art Appreciation (3)**
ART 2	Art History Survey I (3)
ART 2H	Honors Art History Survey I (3)
ART 3	Asian Art History Survey (3)**
ART 4	Art History Survey II (3)
ART 4H	Honors Art History Survey II (3)
ART 5	Survey of Modern Art (3)
ART 6	African, Oceanic and Native American Art History (3)**
DRAM 2	Theater Arts Appreciation (3)
MUS 1	Music Appreciation (3)
MUS 5	American Popular Music (3)
MUS 6	Women and Music (3)
MUS 7	Jazz Appreciation (3)
MUS 9	World Music (3)**
MUS 10	Music Theory I (3)
PHO 1	History of Photography (3)
RTVF 15	Introduction to Film (3)

3B – Humanities

ANTH 17	Introduction to Linguistics (3)
ASL 3	American Sign Language III (4)
CMST 6	Oral Interpretation (3)
ENGL 4	Introduction to Literature (3)
ENGL 8	British Literature I (3)
ENGL 10	British Literature II (3)
ENGL 14	U.S. Literature I (3)
ENGL 15	Film as Literature (3)
ENGL 16	U.S. Literature II (3)
ENGL 20	Introduction to Poetry (3)
ENGL 21	Mythology (3)
ENGL 25	Introduction to Shakespeare (3)

3B – Humanities (continued)

ENGL 26	Queer Film and Literature (3)*
ENGL 31	Existential Lit.: A Literary Approach to Self Integ. (3)
ENGL 35	Cross-Cultural Film and Literature (3)**
ENGL 45	Latino Literature and its Latin American Roots (3)*
ENGL 47	Native American Literature (3)*
ENGL 52H	Honors Great Works of Literature (3)
ENGL 53H	Honors World Literature (3)**
HIST 8	United States History to 1877 (3)
HIST 10	United States History - 1877 to Present (3)
HIST 18	Multicultural History of the United States (3)*•
HIST 26	Men and Women in American History (3)
HIST 30	History of the African American (3)*
HUM 17	Comparative European Studies (3)
HUM 22	Greco-Roman Cultures (3)
LATN 3	Third Semester Latin (4)
PHIL 2	Introduction to Philosophy (3)
PHIL 5	Environmental Ethics (3)
PHIL 16	Western Religions (3)
PHIL 18	Eastern Religions (3)**
SPAN 14	Hispanic Short Stories (3)
SPAN 16	Hispanic Film (3)

AREA 4 – SOCIAL AND BEHAVIORAL SCIENCES

Three courses, 9 semester units required with courses from at least two of the disciplines listed below

Agriculture Science

AGS 10	World Food and Hunger Issues (3) **

American Sign Language

ASL 10	Introduction to Deaf Culture (3)

Anthropology and Archeology

ANTH 4	Cultural Anthropology (3)**
ANTH 4H	Honors Cultural Anthropology (3)**
ANTH 14	Language and Culture (3)
ANTH 16	Archeology and Ancient Societies (3)**
ANTH 18	World Cultures (3)**
ANTH 32	Native Americans (3)*
ANTH 33	Ancient Mesoamerica (3) **
ANTH 34	Native Americans Today (3)*

Communication Studies

CSMT 9	Intercultural Communication (3)*
CSMT 13	Gender and Communication (3)

Economics

ECON 2	Principles of Macroeconomics (3)
ECON 4	Principles of Microeconomics (3)
ECON 20	Economic History of the U.S. (3)
ECON 20H	Honors Economic History of the U.S. (3)

Geography

GEOG 4	Cultural Geography (3)**
GEOG 8	World Regional Geography (3)**
GEOG 10	Geography of California (3)*

History

HIST 3	World History to 1500 (3)**
HIST 5	World History since 1500 (3)**
HIST 6	Modern World History (3)
HIST 18	Multicultural History of the United States (3)*•

Multicultural and Gender Studies

MCGS 8	Introduction to Multicultural and Gender Studies (3)*
MCGS 10	Introduction to Women's Studies (3)*
MCGS 32	Introduction to African American Studies (3)*
MCGS 36	Introduction to Chicano American Studies (3)*

2019-2020 Butte College IGETC Certification List

Courses listed in more than one Category or Area (1-5) can only be counted in one Category or Area

AREA 4 – SOCIAL AND BEHAVIORAL SCIENCES (continued)

Natural Resources

NR 26	Environmental World (3)

Political Science

POS 2	United States Government (3)
POS 3	Comparative Politics (3)
POS 16	Vital Political Problems (3)
POS 18	International Relations (3)

Psychology

PSY 1	Principles of Psychology (3)
PSY 1H	Honors Principles of Psychology (3)
PSY 6	Abnormal Psychology (3)
PSY 11	Pease Psychology (3)
PSY 15	Lifespan Psychology (3)
PSY 16	Psychology of Women (3)
PSY 41	Socio-Cultural Context of Psychological Develop. (3)*

Radio, TV, Film

RTVF 12	Mass Media and Society (3)

Sociology and Criminology

SOC 2	Principles of Sociology (3)
SOC 4	Modern Social Problems (3)
SOC 5	Our Sustainable Future (3)
SOC 10	Introduction to Crime and Society (3)
SOC 14	Sociology of Gender (3)
SOC 20	Introduction to Race and Ethnicity (3)*
SOC 30	Sociology of Inequality (3)*
SOC 30H	Honors Sociology of Inequality (3)*

AREA 5 - PHYSICAL and BIOLOGICAL SCIENCES

At least two courses, 7-9 semester units minimum, with one course each from 5A and 5B. The 5C requirement is met with the completion of a laboratory course or laboratory component from 5A or 5B. Courses that meet this requirement are marked with a " ° ".

5A - Physical Science

AGS 50°	General Soils (4)
CHEM 1°	General Chemistry I (5)
CHEM 2°	General Chemistry II (5)
CHEM 21°	Organic Chemistry I (5)
CHEM 22°	Organic Chemistry II (5)
CHEM 52	Elementary Organic and Biochemistry (4)
GEOG 2	Physical Geography (3)
GEOG 2/3°	Physical Geography with Lab (4)
GEOL 32°	Physical Geology with Lab(4)
GEOL 34°	Historical Geology with Lab (4)
PHYS 10/11°	Concepts of Physics with Lab (4)
PHYS 21°	College Physics I (4)
PHYS 22°	College Physics II (4)
PHYS 41°	Physics for Scientists and Engineers I (4)
PHYS 42°	Physics for Scientists and Engineers II (4)
PHYS 43°	Physics for Scientists and Engineers III (4)
PSC 10°	Introduction to Environmental Science (4)
PSC 11°	Earth Science with Lab (4)
PSC 12°	Concepts in Physical Science (4)
PSC 20/21°	Introductory Physical Science w/Lab (4)
PSC 27	Survey of the Universe
PSC 30°	Introductory Astronomy (4)
PSC 30H°	Honors Introductory Astronomy (4)
PSC 50/51°	Introduction to Weather with Lab (4)
PSC 53	Natural Disasters and Hazards (3)

5B - Biological Science

AGS 20°	Plant Science (3)
ANTH 2	Physical Anthropology (3)
ANTH 2H	Honors Physical Anthropology (3)
BIOL 1°	Introduction to Biology (4)
BIOL 2	Introduction to Human Biology (3)
BIOL 5°	Ecology and Field Biology (4)
BIOL 7	Sustaining Life on Earth (3)

5B - Biological Science (continued)

BIOL 9	Current Issues in Biology (3)
BIOL 9H	Honors Current Issues in Biology (3)
BIOL 10°	Survey of Human Systems (4)
BIOL 15°	Introduction to Microbiology (5)
BIOL 20°	Human Anatomy (4)
BIOL 21°	Human Physiology (4)
BIOL 41°	Cell and Molecular Biology (5)
BIOL 42°	Organismal Biology (5)
BIOL 43°	Ecology and Evolution (5)
PSY 3	Introduction to Biological Psychology (3)

5C– Laboratory Activity

The 5C requirement is met with the completion of a laboratory course or laboratory component from 5A or 5B. Courses that meet this requirement are marked with a " ° ".

AREA 6 - LANGUAGES OTHER THAN ENGLISH (UC Requirement Only)

Proficiency equivalent to two years of high school study in the same language. Any one of the following courses at Butte College will meet this requirement.

6A - Languages Other Than English

ASL 2	American Sign Language II (4)
ASL 3	American Sign Language III (4)
CHIN 2	Second Semester Chinese (4)
FREN 2	Second Semester French (4)
GERM 2	Second Semester German (4)
GERM 3	Third Semester German (4)
GERM 4	Fourth Semester German (4)
ITAL 2	Second Semester Italian (4)
JPN 2	Second Semester Japanese (4)
JPN 3	Third Semester Japanese (4)
JPN 4	Fourth Semester Japanese (4)
LATN 2	Second Semester Latin (4)
LATN 3	Third Semester Latin (4)
SPAN 2	Second Semester Spanish (4)
SPAN 3	Third Semester Spanish (4)
SPAN 4	Fourth Semester Spanish (4)

U. S. History, Constitution, and American Ideals (CSU) and American History and Institutions (UC) requirements: One course each from Category 1 and Category 2 will meet both the CSU and the UC graduation requirement. **NOTE:** Most UC students meet the American History and Institutions graduation requirement through work completed in high school. Students are advised to consult a counselor to determine how to meet these requirements.

Category 1 - U. S. History

ECON 20	Economic History of the U. S. (3)
ECON 20H	Honors Economic History of the U.S. (3)
HIST 8	U.S. History to 1877 (3)
HIST 10	U.S. History 1877 to Present (3)
HIST 26	Men and Women in American History (3)

Category 2 - Government

POS 2	United States Government (3)
POS 12	California State and Local Government (3)

‡ (POS 12 is for CSU only and does not transfer to the UC)

NOTE: CSU Chico requires all students to complete one course each in U.S. Diversity (*) and Global Cultures (**). These courses also may meet General Education requirements

•NOTE: Courses listed in more than one area can only be counted in one area

Agriculture Business (AB)

AS-T Degree in Agriculture Business
AS Degree in Agricultural Business
AS Degree in Agriculture Business
Certificate of Achievement in Agriculture Business

Robert Landry, Advisor (530) 895-2593
Department Office: AHPS 251, (530) 895-2551
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Agriculture Business — 60 Units Minimum

Program Code: 33579.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Accumulate, record, and analyze agricultural financial statements
- Analyze specific markets to explain and predict changes in price and economic behavior
- Demonstrate core management principles and apply them to different working scenarios.
- Apply core marketing principles to the unique structure of the agriculture sector.
- Demonstrate effective verbal and written communication in an agricultural business environment.
- Recognize consumer and producer responsiveness to changing market conditions.

Required courses for the major:			23 Units
Required Core:			
AGS 50	General Soils		4
AB 22	Agricultural Economics		3
MATH 18	Introduction to Statistics	(P)	4
ECON 2	Principles of Macroeconomics	(P)	3
List A: Select three			
AB 26	Introduction to Agriculture Business		3
AB 25	Computer Applications in Agriculture		3
AGS 40	Introduction to Animal Science		3
or AGS 20	Plant Science (3)		
AB 50	Agricultural Accounting		3

AS Degree in Agricultural Business — 60 Units Minimum

Program Code: 15474.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Accumulate, record, and analyze agricultural financial data.
- Analyze specific agricultural markets to explain and predict changes in price and economic behavior.

Required courses for the major:			30 - 32 Units
AB 22	Agricultural Economics		3
AB 25	Computer Applications in Agriculture		3
AB 50	Agricultural Accounting		3
or ACCT 2	Financial Accounting (4)		
ACCT 4	Managerial Accounting	(P)	4
CHEM 51	Elementary Inorganic Chemistry	(P)	5
ECON 2	Principles of Macroeconomics	(P)	3
MATH 18	Introduction to Statistics	(P)	4
Select 2 courses from the following:			
AGS 40	Introduction to Animal Science		3
AGS 50	General Soils		4
AGS 20	Plant Science		3
Electives - Select 6 units from the following:			6
AB 20	Careers in Agriculture, Environmental Science and Natural Resources (1)		
AB 26	Introduction to Agriculture Business (3)		
AB 54	Supervision and Management in Agriculture (3)		
AET 22	Natural Resources and Agri-Construction (3)		
AET 26	Basic Surveying (3)		
AET 30	Tractors and Crawlers (3)		
AET 34	Farm Machinery (3)		
AET 35	Heavy Equipment Methods (3)	(C)	
AET 36	Heavy Equipment Operation (6)	(C)	
AET 38	Diesel Engines and Machine Systems (4)		
AET 43	Hydraulic and Pneumatic Systems (2)		
AGS 30	Ecology of Insect and Disease Management (3)		
AGS 10	World Food and Hunger Issues (3)		
AGS 45	Feeds and Feeding (3)		

AS Degree in Agriculture Business — 60 Units Minimum

Program Code: 01301.00AS
Type: Career
GE: Butte Local

About the Program

The Agriculture Business program provides the student with employable skills and provides a framework for further study if desired. Course work is practical and broad-based. Emphasis is placed on the development of skills in business management, marketing, finance, computers, human relations, and agricultural accounting. The computer labs, campus farm, and greenhouses provide an ideal setting for hands on learning. To gain practical experience on and off campus internships are available. Numerous area agriculture businesses provide opportunities for field trips, internships, and employment. Student clubs such as the Agriculture Ambassadors provide opportunities for leadership development and community service.

A career in Agriculture Business is both financially rewarding and personally challenging. For job seekers, it is probably the most readily available entry-level position in the agriculture industry. Numerous specialized companies throughout northern California require qualified persons for marketing, sales, finance, policy, government, farm ranch management, and international trade and development. For job entry and advancement, however, certain basic skills remain fundamental. These include proficiency in computers, record keeping, finance, management and marketing. The following is a list of possible agriculture business career

opportunities: Bookkeeper, Business Manager, Business Owner, Commodity Broker, Community Development, Consultant, Equipment Dealer, Farm and Ranch Manager, International Development Specialist, Insurance Agent, Land Appraiser, Livestock buyer, Loan Officer, Management Specialist, Produce Buyer, Public Relations, Retail Sales and Sales Representative.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Accumulate, record, and analyze agricultural financial data.
- Analyze specific agricultural markets to explain and predict changes in price and economic behavior.
- Make effective business decisions using a systematic, information-based approach.

Required courses for the major:			**31 Units**
AB 20	Careers in Agriculture, Environmental Science and Natural Resources		1
AB 22	Agricultural Economics		3
AB 25	Computer Applications in Agriculture		3
AB 26	Introduction to Agriculture Business		3
AB 50	Agricultural Accounting		3
AB 54	Supervision and Management in Agriculture		3
AET 30	Tractors and Crawlers		3
AGS 50	General Soils		4
AGS 10	World Food and Hunger Issues		3
or ECON 2	Principles of Macroeconomics (3)	(P)	
or NR 26	Environmental World (3)		
AGS 99	Work Experience-AGS	(P)	2
AGS 20	Plant Science		3
or AGS 40	Introduction to Animal Science (3)		

Certificate of Achievement in Agriculture Business

19 Units

Program Code: 01298.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in Agriculture Business prepares students for entry level employment within the industry. Additionally, the certificate provides opportunities for skills enhancement for those with previous experience in agriculture business or those looking to supplement related degrees that benefit from a business focus. Upon completion of the Certificate of Achievement, students will have increased their knowledge of the agriculture industry while having gained experience with fundamental concepts of business management, economics and accounting and production practices as they relate to the agricultural industry.

Gainful Employment Information
Certificate of Achievement in Agriculture Business:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Accumulate, record, and analyze agricultural financial data.
- Analyze specific agricultural markets to explain and predict changes in price and economic behavior.
- Make effective business decisions using a systematic, information-based approach.

Required courses for the certificate:

AB 20	Careers in Agriculture, Environmental Science and Natural Resources	1
AB 22	Agricultural Economics	3
AB 25	Computer Applications in Agriculture	3
AB 26	Introduction to Agriculture Business	3
AB 50	Agricultural Accounting	3
AB 54	Supervision and Management in Agriculture	3
AGS 20	Plant Science	3
or AGS 40	Introduction to Animal Science (3)	

Accounting (ACCT)

AS Degree in Accounting
Certificate of Achievement in Accounting
Certificate in Account Clerk
Certificate in Tax Preparer

LaRee Hartman, Chair (530) 895-2207
Department Office: BE 116, (530) 895-2371
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Accounting — 60 Units Minimum

Program Code: 01308.00AS
Type: Career
GE: Butte Local

About the Program

Students planning an accounting career should be detail-oriented, be able to analyze and interpret facts and figures quickly and accurately, and make sound decisions. They must also be able to communicate the results. Patience, persistence, self-discipline, and concentration are essential. High school students considering an accounting career are encouraged to take English, mathematics, computer, accounting, and related business courses.

The Accounting program is designed to enable students to: set up, complete, adjust, and summarize records of business activities according to accepted accounting principles and techniques; use accounting information to enhance business planning, decision making, problem solving, and management control; and apply both financial and managerial accounting principles and techniques.

Accounting employment opportunities are expected to increase faster than for many other occupations due to pressure on business and governmental agencies to improve their financial accountability. Demand for skilled accountants will rise as managers rely more on accounting information to make decisions. Knowledge of basic computer applications is essential.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Accumulate, record, and analyze financial data.
- Prepare accurate reports for decision making and regulatory compliance.
- Understand accounting and business terminology used in business scenarios, and be proficient with commonly used office software programs.

Required courses for the major: **39 Units**

ACCT 20	Introduction to Accounting		3
BCIS 46	Business Math Calculations		2
BCIS 13	Business Communication		3
BUS 20	Introduction to Business		3
BCIS 81	Microsoft Excel for Business		1
ACCT 2	Financial Accounting		4
BUS 8	Legal Environment of Business		3
ACCT 100	QuickBooks Pro-Computerized Accounting	(P)	2
BUS 35	Management and Human Relations		3
ACCT 4	Managerial Accounting	(P)	4
ACCT 110	Accounting for Payroll		3
BCIS 33	Skills for the Working Professional		1
ACCT 30	Accounting Capstone	(P)	4
BUS 64	Principles of Marketing		3

Certificate of Achievement in Accounting — 28 Units

Program Code: 01308.00CA
Type: Career
GE: None

About the Program

See AS Degree in Accounting.

Gainful Employment Information
Certificate of Achievement in Accounting:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Accumulate, record, and analyze financial data.
- Prepare accurate reports for decision making and regulatory compliance.
- Understand accounting and business terminology used in business scenarios, and be proficient with commonly used office software programs.

Required courses for the certificate:

ACCT 20	Introduction to Accounting		3
BCIS 46	Business Math Calculations		2
BCIS 13	Business Communication		3
BUS 20	Introduction to Business		3
BCIS 81	Microsoft Excel for Business		1
ACCT 2	Financial Accounting		4
ACCT 100	QuickBooks Pro-Computerized Accounting	(P)	2
BUS 35	Management and Human Relations		3
ACCT 110	Accounting for Payroll		3
BCIS 33	Skills for the Working Professional		1
BUS 64	Principles of Marketing		3

Certificate in Account Clerk — 14 - 16 Units

Program Code: ACCT.CC
Type: Career
GE: None

About the Program

See AS Degree in Accounting.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Utilize double entry bookkeeping system to record common business transactions.
- Employ accounting and business terminology to describe business transactions and scenarios.
- Record payables and receivables using QuickBooks or similar accounting programs.
- Demonstrate proficiency with commonly used office software programs.

Required courses for the certificate:

ACCT 128	Bookkeeping		2
or ACCT 20	Introduction to Accounting (3)		
BCIS 46	Business Math Calculations		2
BCIS 13	Business Communication		3
BCIS 81	Microsoft Excel for Business		1
ACCT 100	QuickBooks Pro-Computerized Accounting	(P)	2
BCIS 33	Skills for the Working Professional		1
Electives - 1 course from the following:			3 - 4
BCIS 18	Introduction to Business Technology (3)		
BUS 62	Money & Happiness: Cultural, Psychological and Economic Factors (3)		
ECON 4	Principles of Microeconomics (3)	(P)	
ACCT 105	Income Tax Preparation (4)		
BUS 18	Database Design (4)		

Certificate in Tax Preparer

15 Units

Program Code: TAXPREP.CC
Type: Career
GE: None

About the Program

The requirements for becoming a licensed tax preparer and the rules and regulations governing licensed tax preparers are reviewed. Students planning an accounting career should be detail-oriented, be able to analyze and interpret facts and figures quickly and accurately, and make sound decisions. They must also be able to communicate the results. Patience, persistence, self-discipline, and concentration are essential.

Students who complete this certificate are eligible to assist tax professionals in an accounting office, a financial institution, an enrolled agent's office, the Internal Revenue Service, the California State Franchise Tax Board, or a state licensed tax preparer's office.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Understand accounting and business terminology used in business scenarios, and be proficient with commonly used office software programs.
- Recognize and apply basic state and federal income taxation laws to individual tax return forms.

Required courses for the certificate:

ACCT 20	Introduction to Accounting		3
ACCT 105	Income Tax Preparation		4
BCIS 46	Business Math Calculations		2
ACCT 100	QuickBooks Pro-Computerized Accounting	(P)	2
BCIS 81	Microsoft Excel for Business		1
Electives - Select 3 units from the following:			3
BCIS 13	Business Communication (3)		
BCIS 18	Introduction to Business Technology (3)		
BUS 62	Money & Happiness: Cultural, Psychological and Economic Factors (3)		
ECON 4	Principles of Microeconomics (3)	(P)	
BUS 18	Database Design (4)		

Agricultural Engineering Technology (AET)

AS Degree in Mechanized Agriculture
Certificate of Achievement in Heavy Equipment Operator Technician
Certificate of Achievement in Mechanized Agriculture

Bruce Enyeart, Advisor (530) 895-2418
Department Office: AHPS 251, (530) 895-2551
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Mechanized Agriculture — 60 Units Minimum

Program Code: 01305.00AS
Type: Career
GE: Butte Local

About the Program

The Mechanized Agriculture program offers students an option to earn either a one-year Certificate of Achievement or an AS degree. An exciting, hands-on approach introduces students to a wide range of mechanical skills dealing with the operation, maintenance and repair of small to midsize gasoline, diesel and electrically-operated equipment. Problem solving, emphasizing safe and cooperative work habits, is encouraged. Success in this program will be enhanced by high school work in shop and basic skills classes. Wherever power equipment is operated, maintained or repaired, there exists a need for well-trained employees. Production agriculture and its equipment suppliers, the rental industry, landscape businesses, recreation and construction industries are just a few of the employment possibilities.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and demonstrate proper use, care, and adjustment of common and precision tools and machines found in a mechanized agriculture shop.
- Operate wheel and track type tractors safely and properly.
- Perform operator level maintenance and adjustments of tractor systems.
- Analyze and match the proper tractor and equipment to do the job correctly and efficiently.

Required courses for the major: — **41 Units**

AB 20	Careers in Agriculture, Environmental Science and Natural Resources		1
AB 25	Computer Applications in Agriculture		3
AET 30	Tractors and Crawlers		3
AGS 99	Work Experience-AGS	(P)	2
AGS 50	General Soils		4
AGS 20	Plant Science		3
AB 54	Supervision and Management in Agriculture		3
AET 22	Natural Resources and Agri-Construction		3
or EH 22	Landscape Construction (3)		
AET 34	Farm Machinery		3
AET 36	Heavy Equipment Operation	(C)	6
AET 38	Diesel Engines and Machine Systems		4
AET 43	Hydraulic and Pneumatic Systems		2
WLD 20	Beginning Welding		4

Certificate of Achievement in Heavy Equipment Operator Technician — 31 Units

Program Code: 07260.00CA
Type: Career
GE: None

About the Program

The Heavy Equipment Operator Technician program can be obtained in one-year. It is an exciting, hands-on approach is used to introduce students to a wide range of skills for classroom laboratory work to closely reflect field experiences. Construction equipment operation requires good hand-eye coordination and demands attention to details like timelines, precision driving, coordination of multiple operations, and following plan directions. Development of problem solving skills and safe and cooperative work habits is emphasized.

Students who successfully complete the program requirements will have the operation, repair and diagnostic skills necessary to obtain entry-level employment. Each year, the demand for qualified operators and maintenance technicians increases. Our partners include Operating Engineers Local 3, CalTrans, CDF, local and statewide contractors, and agriculture companies. Most jobs are obtained with smaller contractors. Jobs are also available in production agriculture, land leveling, orchard removal, and with other agricultural employers.

Gainful Employment Information
Certificate of Achievement in Heavy Equipment Operator Technician:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the principles of operation and maintenance required to operate and support modern agricultural and industrial powered equipment.
- Demonstrate the ability to safely and correctly maintain and operate a range of agricultural and industrial powered equipment.
- Evaluate career opportunities, prospective employers, and skills necessary to achieve employment.

Required courses for the certificate:

AB 20	Careers in Agriculture, Environmental Science and Natural Resources		1
AET 26	Basic Surveying		3
AET 30	Tractors and Crawlers		3
AET 44	Grade Setting		2
AET 38	Diesel Engines and Machine Systems		4
WLD 20	Beginning Welding		4
AET 34	Farm Machinery		3
AET 35	Heavy Equipment Methods	(C)	3
AET 36	Heavy Equipment Operation	(C)	6
AET 43	Hydraulic and Pneumatic Systems		2

Certificate of Achievement in Mechanized Agriculture — 26 Units

Program Code: 01305.00CA
Type: Career
GE: None

About the Program

See AS Degree in Mechanized Agriculture

Gainful Employment Information
Certificate of Achievement in Mechanized Agriculture:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and demonstrate proper use, care, and adjustment of common and precision tools and machines found in a mechanized agriculture shop.

- Operate wheel and track type tractors safely and properly.
- Perform operator level maintenance and adjustments of tractor systems.
- Analyze and match the proper tractor and equipment to do the job correctly and efficiently.

Required courses for the certificate:

AB 20	Careers in Agriculture, Environmental Science and Natural Resources		1
AET 30	Tractors and Crawlers		3
AET 38	Diesel Engines and Machine Systems		4
AET 22	Natural Resources and Agri-Construction		3
or EH 22	Landscape Construction (3)		
AET 34	Farm Machinery		3
AET 36	Heavy Equipment Operation	(C)	6
WLD 20	Beginning Welding		4
AET 43	Hydraulic and Pneumatic Systems		2

Agriculture Science (AGS)

AS Degree in Agriculture and Natural Resources
AS Degree in Agriculture Science

Jennifer Charles-Tollerup, Advisor (530) 895-2357
Department Office: AHPS 251, (530) 895-2551
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Agriculture and Natural Resources

60 Units Minimum

Program Code: 11137.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and describe environmental conditions influencing local crop production.
- Explain the effects of temperature, water, spacing and fertility on plant growth and production.
- Evaluate the role of soil fertility in an ecological production system.
- Describe and analyze the major categories and sources of air and water pollution and explain how these pollutants are hazardous to human health, vegetation and all of life on earth.

Required courses for the major:			32 - 34 Units
AB 22	Agricultural Economics		3
or AB 50	Agricultural Accounting (3)		
or ACCT 2	Financial Accounting (4)		
AET 22	Natural Resources and Agri-Construction		3
AGS 40	Introduction to Animal Science		3
AGS 50	General Soils		4
or AGS 20	Plant Science (3)		
CHEM 1	General Chemistry I	(P)	5
or CHEM 51	Elementary Inorganic Chemistry (5)	(P)	
CHEM 2	General Chemistry II	(P)	5
or CHEM 52	Elementary Organic and Biochemistry (4)	(P)	
MATH 18	Introduction to Statistics	(P)	4
Electives - Select 6 units from the following:			6
AB 20	Careers in Agriculture, Environmental Science and Natural Resources (1)		
AB 25	Computer Applications in Agriculture (3)		
AB 26	Introduction to Agriculture Business (3)		
AB 50	Agricultural Accounting (3)		
AB 54	Supervision and Management in Agriculture (3)		
AET 26	Basic Surveying (3)		
AET 30	Tractors and Crawlers (3)		
AET 34	Farm Machinery (3)		
AET 35	Heavy Equipment Methods (3)	(C)	
AET 36	Heavy Equipment Operation (6)	(C)	
AET 38	Diesel Engines and Machine Systems (4)		
AET 43	Hydraulic and Pneumatic Systems (2)		
AGS 30	Ecology of Insect and Disease Management (3)		
AGS 10	World Food and Hunger Issues (3)		
AGS 45	Feeds and Feeding (3)		

AS Degree in Agriculture Science

60 Units Minimum

Program Code: 01298.00AS
Type: Career
GE: Butte Local

About the Program

The Agriculture Science program offers an AS degree for those students interested in a more general course of study. Students with a background in production agriculture, 4-H or FFA will find success in this program as they pursue a career with an emphasis in agriculture sciences, agriculture education, and agribusiness occupations. California ranks first in the nation in annual gross agricultural returns. The livestock industry and over 250 specialty crops provide a variety of career choices. Trained personnel are employed on ranches and farms, as well as the vast agriculture service industry. Career opportunities also exist with governmental agencies. Every year there are several openings in Agriculture Education in California as well as other states.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and apply the principles and techniques of modern crop and livestock management.
- Describe fundamental care practices for animals, including selection, handling and management.
- Distinguish common types of agricultural pests including weeds, diseases, and insects.
- Calibrate plant protection equipment including hand-held, ATV, trailer, and orchard sprayers.
- Select appropriate fertilizers, basic application methods, and recognize their effect on plants and the environment.
- Describe how breeding, genetics, and biotechnology are used to increase agricultural production.
- Demonstrate scientific evaluation skills including interpreting graphs and data from scientific papers.

Required courses for the major:			43 Units
AB 20	Careers in Agriculture, Environmental Science and Natural Resources		1
AB 22	Agricultural Economics		3
AB 25	Computer Applications in Agriculture		3
AB 26	Introduction to Agriculture Business		3
AB 50	Agricultural Accounting		3
AB 54	Supervision and Management in Agriculture		3
AET 30	Tractors and Crawlers		3
AET 34	Farm Machinery		3
AGS 99	Work Experience-AGS	(P)	2
AGS 50	General Soils		4
NR 26	Environmental World		3
or AGS 10	World Food and Hunger Issues (3)		
AGS 20	Plant Science		3
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
Electives - Select 6 units from the following:			6
AET 26	Basic Surveying (3)		
AGS 30	Ecology of Insect and Disease Management (3)		
AGS 40	Introduction to Animal Science (3)		
AGS 45	Feeds and Feeding (3)		

Administration of Justice (AJ)

AS-T Degree in Administration of Justice
AS Degree in Administration of Justice
AS Degree in Court Personnel/Pre-law
AS Degree in Criminal Justice
Certificate of Achievement in Administration of Justice
Certificate of Achievement in Court Personnel/Pre-law

Marshall Haslem, Chair (530) 895-2933
Department Office: AHPS 144, (530) 895-2402
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Administration of Justice — 60 Units Minimum

Program Code: 31042.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the historical development and philosophy of law.
- Perform legal research independently and interpret, analyze and defend appellate court decisions.
- Demonstrate an understanding of the characteristics of crime and criminality, and the criminal justice system in the United States.

Required courses for the major:			18 - 19 Units
Required Core			
AJ 2	Administration of Justice		3
AJ 4	Criminal Law		3
List A: Select two			
AJ 11	Criminal Procedure		3
AJ 6	Evidence		3
AJ 8	Criminal Investigation		3
AJ 10	Juvenile Procedures		3
List B: Select two			
Any course from List A not already used			
SOC 2	Principles of Sociology		3
MATH 18	Introduction to Statistics	(P)	4
PSY 1	Principles of Psychology		3
AJ 14	Community Oriented Policing		3

AS Degree in Administration of Justice — 60 Units Minimum

Program Code: 07269.00AS
Type: Career
GE: Butte Local

About the Program

The Administration of Justice program, with an emphasis in law enforcement, provides students with the skills and knowledge to assist them in obtaining employment in a variety of areas, including law enforcement, corrections, probation, and fish and wildlife. Those already working in law enforcement may take courses at Butte College to enhance their chances for promotional advancement. Students need competency in reading and writing. High school students should take courses in speech, English composition and basic math.

Students in this program will improve their ability to read, write, and analyze situations. Students also will gain a basic understanding of California laws and case law. The AS degree should be considered a step towards a higher degree or specialized instruction. Students who complete the two-year AS degree will have the knowledge and skills to assist them in seeking employment in many different areas of law enforcement.

There are many job opportunities available in federal, state, county and municipal law enforcement. Employment is also available in state and local correctional facilities and county probation offices. To compete successfully with other law enforcement applicants, individuals must be well trained and have a broad educational background. Most positions require at least an Associate's degree.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the historical development and philosophy of law.
- Perform legal research independently and interpret, analyze and defend appellate court decisions.
- Communicate effectively in a variety of situations and prepare acceptable investigative reports.
- Identify and describe modus operandi, basic crime scene investigation, proper identification and collection of evidence.
- Describe interview and lawful interrogation techniques.

Required courses for the major:			33 Units
AJ 1	Criminology		3
AJ 2	Administration of Justice		3
AJ 3	Legal Research		2
AJ 4	Criminal Law		3
AJ 6	Evidence		3
AJ 8	Criminal Investigation		3
AJ 10	Juvenile Procedures		3
AJ 11	Criminal Procedure		3
AJ 13	Organized Crime/Gangs		3
AJ 14	Community Oriented Policing		3
AJ 99	Work Experience-AJ	(P)	1
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		

AS Degree in Court Personnel/Pre-law — 60 Units Minimum

Program Code: 11136.00AS
Type: Career
GE: Butte Local

About the Program

This program is designed around a core of law-related courses. From this basic core, a student can expand into a number of specialized areas such as pre-law, court personnel, paralegal, law enforcement, public administration, social welfare, and probation. Students entering the program should have a high level of reading and writing ability. It is recommended that students still in high school concentrate on English and business skills. The AS degree should be considered a step towards a higher degree or specialized instruction.

There are many opportunities available including: positions in a private law firm, district attorney's office, court, social welfare agency, educational institution and all law enforcement-related offices.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate an understanding of complex laws, court decisions, the court system and legal process and their impact on government, business and society.
- Demonstrate effective critical thinking, analytical and problem solving skills.
- Effectively interpret, integrate, synthesize and apply complex information from multiple sources.

Required courses for the major:			36 - 39 Units
ACCT 20	Introduction to Accounting		3
AJ 1	Criminology		3
AJ 2	Administration of Justice		3
AJ 3	Legal Research		2
AJ 4	Criminal Law		3
AJ 6	Evidence		3
AJ 8	Criminal Investigation		3
AJ 11	Criminal Procedure		3
AJ 99	Work Experience-AJ	(P)	1
or BCIS 60	Advanced Legal Office Procedures (3)		
or BCIS 59	Beginning Legal Office Procedures (3)		
BUS 8	Legal Environment of Business		3
BUS 20	Introduction to Business		3
POS 12	California State and Local Government		3
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	

AS Degree in Criminal Justice

60 Units Minimum

Program Code: 16981.00AS
Type: Local
GE: Butte Local

About the Program

The Criminal Justice degree is designed for students who plan to earn a Bachelor's degree in Criminal Justice or related fields at CSU, Chico. This transfer major may also serve as the basis for students who are interested in pre-law. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the historical development and philosophy of law.
- Perform legal research independently and interpret, analyze and defend appellate court decisions.
- Communicate effectively in a variety of situations, and prepare acceptable investigative reports.
- Identify and describe modus operandi, basic crime scene investigation, proper identification and collection of evidence.
- Describe interview and lawful interrogation techniques.

Required courses for the major:		18 Units
AJ 2	Administration of Justice	3
AJ 4	Criminal Law	3
AJ 6	Evidence	3
AJ 8	Criminal Investigation	3
AJ 10	Juvenile Procedures	3
AJ 14	Community Oriented Policing	3

Certificate of Achievement in Administration of Justice

30 Units

Program Code: 07269.00CA
Type: Career
GE: None

About the Program

See AS Degree in Admininistration of Justice

Gainful Employment Information
Certificate of Achievement in Administration of Justice
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the historical development and philosophy of law.
- Perform legal research independently and interpret, analyze and defend appellate court decisions.
- Communicate effectively in a variety of situations and prepare acceptable investigative reports.
- Identify and describe modus operandi, basic crime scene investigation, proper identification and collection of evidence.
- Describe interview and lawful interrogation techniques.

Required courses for the certificate:			
AJ 1	Criminology		3
AJ 2	Administration of Justice		3
AJ 3	Legal Research		2
AJ 4	Criminal Law		3
AJ 6	Evidence		3
AJ 8	Criminal Investigation		3
AJ 13	Organized Crime/Gangs		3
AJ 14	Community Oriented Policing		3
AJ 10	Juvenile Procedures		3
AJ 11	Criminal Procedure		3
AJ 99	Work Experience-AJ	(P)	1

Certificate of Achievement in Court Personnel/Pre-law

29 - 30 Units

Program Code: 11136.00CA
Type: Career
GE: None

About the Program

See AS Degree in Court Personnel/Pre-law

Gainful Employment Information
Certificate of Achievement in Court Personnel/Pre-law:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate an understanding of complex laws, court decisions, the court system and legal process and their impact on government, business and society.
- Demonstrate effective critical thinking, analytical and problem solving skills.
- Effectively interpret, integrate, synthesize and apply complex information from multiple sources.

Required courses for the certificate:		
AJ 1	Criminology	3
AJ 2	Administration of Justice	3
AJ 3	Legal Research	2
AJ 4	Criminal Law	3
AJ 6	Evidence	3

AJ 8	Criminal Investigation		3
AJ 11	Criminal Procedure		3
AJ 99	Work Experience-AJ	(P)	3
or BCIS 59	Beginning Legal Office Procedures (3)		
or BCIS 60	Advanced Legal Office Procedures (3)		
BUS 8	Legal Environment of Business		3
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	

Administration of Justice-Law Enforcement (AJLE)

AS Degree in Law Enforcement Academy - Basic
AS Degree in Law Enforcement Academy - Basic/Fish and Wildlife Emphasis
AS Degree in Law Enforcement Academy - Basic/State Parks Emphasis
Certificate of Achievement in Law Enforcement Academy-Basic
Certificate of Achievement in Law Enforcement Academy - Basic/Fish and Wildlife Emphasis
Certificate of Achievement in Law Enforcement Academy - Basic/State Parks Emphasis

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Department Office: AHPS 144, (530) 895-2401
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Law Enforcement Academy - Basic

60 Units Minimum

Program Code: 17935.00AS
Type: Career
GE: Butte Local

About the Program

The Law Enforcement Academy program is designed to prepare students to meet entry-level requirements for jobs in the law enforcement profession. The curriculum has sufficient breadth to allow students to pursue a career in a variety of agencies. Typically, the Basic Law Enforcement Academy begins in July and again in January. For the AS degree employable skills are developed in conjunction with General Education.

Careers in law enforcement are constantly open statewide. Satisfactory completion of the Butte College Basic Law Enforcement Academy qualifies graduates to apply for these positions.

The California Commission on Peace Officer Standards and Training designates 42 areas of law enforcement instruction designed to prepare academy graduates for entry-level law enforcement positions.

Admission to the Program

Students are admitted by special application only. Admission to the program is based on scores on the POST Entry-Level Exam, completing a 1.5 mile run in 15 minutes or less, and other special requirements.

For more information about the Butte College Law Enforcement-Basic program, or to apply for admission to the program, please go to our website: www.butte.edu/departments/careertech/publicsafety/law_enforcement.html

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate competency in 42 P.O.S.T. learning domains.
- Demonstrate, through written exams, crime scene scenario testing, and manipulative skills, core competencies as mandated by P.O.S.T.
- Demonstrate, through written exams, P.O.S.T. scenario testing, and manipulative skills, core competencies as mandated by P.O.S.T.

Required courses for the major: **36.5 Units**

AJLE 140	Law Enforcement Academy	(P/C)	34.5
AJLE 100	Law Enforcement Academy Physical Training	(C)	2

AS Degree in Law Enforcement Academy - Basic/Fish and Wildlife Emphasis

60 Units Minimum

Program Code: 18988.01AS
Type: Career
GE: Butte Local

About the Program

The Law Enforcement Academy program Fish and Wildlife emphasis is designed to prepare students to meet entry-level requirements for jobs in the law enforcement profession. The curriculum has sufficient breadth to allow students to pursue a career in a variety of agencies. This academy also emphasizes laws and regulations regularly enforced by the Department of Fish and Wildlife. For the AS degree employable skills are developed in conjunction with General Education.

Careers in law enforcement are constantly open statewide. Satisfactory completion of the Butte College Basic Law Enforcement Academy with a Fish and Wildlife emphasis qualifies graduates to apply for these positions.

The California Commission on Peace Officer Standards and Training designates 42 areas of law enforcement instruction designed to prepare academy graduates for entry-level law enforcement positions.

Admission to the Program

Students are admitted by special application only. Admission to the program is based on scores on the POST Entry-Level Exam, completing a 1.5 mile run in 15 minutes or less, and other special requirements. Employment information for the CA Department of Fish and Wildlife is available on their website at: www.dfg.ca.gov/enforcement/academy.aspx.

For more information about the Butte College Law Enforcement Academy-Basic/Fish and Wildlife Emphasis, and to apply for admission to the program, please go to our website at: www.butte.edu/departments/careertech/publicsafety/fish_game.html

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Meet or exceed the requirements as set forth by Peace Officer Standards and Training (P.O.S.T.) for California peace officer training.
- Demonstrate, through written exams, crime scene scenario testing and manipulative skills, core competencies as mandated by P.O.S.T.
- Demonstrate, through written exams, crime scene scenario testing and manipulative skills, core competencies as mandated by the California Department of Fish and Wildlife.

Required courses for the major: **50 Units**

AJLE 141	Law Enforcement Academy; Fish and Wildlife Emphasis	(P/C)	48
AJLE 100	Law Enforcement Academy Physical Training	(C)	2

AS Degree in Law Enforcement Academy - Basic/State Parks Emphasis

60 Units Minimum

Program Code: 35937.00AS
Type: Career
GE: Local

About the Program

The Law Enforcement Academy program (State Parks emphasis) is designed to prepare students to meet entry-level requirements for jobs in the law enforcement profession generally, and with the California Department of Parks and Recreation specifically. The curriculum has sufficient breadth to allow students to pursue a career in a variety of law enforcement agencies in peace officer positions. This academy also emphasizes laws and regulations regularly enforced by the Department of Parks and Recreation.

Careers in law enforcement as peace officers are constantly open statewide. There are currently thousands of peace officer job openings in the State of California, with at least 2770 additional openings expected each year for the next several years. Additionally, the State of California, Department of Parks and Recreation has over 125 current vacancies and is experiencing approximately 55-60 peace officer vacancies each year. Satisfactory completion of the Butte College Basic Law Enforcement Academy with a State Parks emphasis meets the 42 Learning Domain requirements for the California Commission on Peace Officer Standards and Training and qualifies graduates to apply for these entry-level peace officer positions.

Admission to the Program

Students are admitted to this program by special application only. Students must either be approved, accepted and employed as State Park Peace Officer Cadet Rangers or Lifeguards for the California Department of Parks and Recreation or as peace officer trainees by a California law enforcement agency, or they must meet the following requirements:

Must have a high school diploma from an accredited high school, or a GED Certificate;Must pass Peace Officer Standards and Training Entry Level Law Enforcement Test Battery (PELLET-B) exam with a score of 42 or higher;Must pass Law Enforcement Academy Physical Training Test, a 1.5 mile run which must be completed in 15minutes of less, and no more than 3 months prior to the first day of the academy;Must complete Butte College Law Enforcement Academy Orientation;Must possess a valid, unrestricted driver's license with no current or recent suspensions;Must provide California Department of Justice clearance within 90 days of the start of the academy which confirms that the applicant has no felony or misdemeanor convictions or circumstances which would prohibit possession of a firearm; andMust provide proof of completion of a medical suitability examination
Additional information about the Butte College Law Enforcement Academy-Basic/ State Parks Emphasis, and application for admission to the program, is available at: www.butte.edu/departments/careertech/publicsafety/state-park-ranger.html

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Meet or exceed the requirements as set forth by Peace Officer Standards and Training (P.O.S.T.) for California Peace Officer training.
- Demonstrate technical proficiency in all skills necessary to fulfill the role of an Emergency Medical Responder.
- Demonstrate competence and understanding of the "Four Basic Safety Rules" for handling firearms.
- Demonstrate the ability to field strip a rifle and to properly clean and maintain it.
- Explain policy regarding the use of firearms.
- Demonstrate the ability to properly load, unload, clear malfunctions and fire a rifle.
- Demonstrate the fundamentals of rifle marksmanship to fire accurately from the prone, kneeling, sitting and standing positions.
- Demonstrate proficiency and obtain qualification as being certified as competent in the use of a rifle.
- Demonstrate, through written exams, crime scene scenario testing, and manipulative skills, core competencies as mandated by P.O.S.T.
- Demonstrate, through written exams, DPR scenario testing, and manipulative skills, core competencies as mandated by DPR.
- Evaluate and manage their physical fitness and maintain a healthy lifestyle in order to safely and effectively perform peace officer duties.
- Describe the connection between proper nutrition and maintaining body composition, physical conditioning, and reducing the risk of illness or injury.
- Identify and describe common health problems and utilize appropriate risk management techniques to ensure health and physical fitness.
- Demonstrate competency through written examinations and a themed interpretive presentation in Basic Interpretive Learning Systems (BILS).
- Describe and interpret state and federal laws, rules, regulations decisions, court cases and guidelines which relate to accessibility to public parks and interpretive programs.
- Describe the public safety officerâ€™s role in the EMS system.

Required courses for the major:			**53.5 Units**
AJLE 100	Law Enforcement Academy Physical Training	(C)	2
AJLE 130	Law Enforcement Academy; Basic/State Parks Emphasis	(P/C)	43
AJLE 131	Basic Interpretation Learning System (BILS); State Parks Emphasis		4.5
AJLE 132	Emergency Medical Responder; State Parks Emphasis		3.5
AJLE 133	Patrol Rifle	(P)	.5

Certificate of Achievement in Law Enforcement Academy-Basic

37 Units

Program Code: 33254.00CA
Type: Career
GE: None

About the Program

See AS Degree in Law Enforcement Academy-Basic

Gainful Employment Information
Certificate of Achievement in Law Enforcement Academy-Basic
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Evaluate and manage their physical fitness and maintain a healthy lifestyle in order to safely and effectively perform peace officer duties.
- Meet or exceed the basic training requirements of 42 comprehensive Learning Domains as set forth by the Commission on Peace Officer Standards and Training for entry level California peace officers.
- Demonstrate the manipulative skills and core competencies mandated by the Commission on Peace Officer Standards and Training for entry level California peace officers.

Required courses for the certificate:			
EDUC 10	Critical Skills for College Success	(P)	.5
AJLE 100	Law Enforcement Academy Physical Training	(C)	2
AJLE 140	Law Enforcement Academy	(P/C)	34.5

Certificate of Achievement in Law Enforcement Academy - Basic/Fish and Wildlife Emphasis

50 Units

Program Code: 17970.01CA
Type: Career
GE: None

About the Program

See AS Degree in Law Enforcement Academy - Basic/Fish and Wildlife Emphasis.

Gainful Employment Information
Certificate of Achievement in Law Enforcement Academy - Basic/Fish and Wildlife Emphasis:
http://www.butte.edu/academicprograms/

Admission to the Program

See Admission to the Program for the AS Degree in Law Enforcement Academy - Basic/Fish and Wildlife Emphasis.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Meet or exceed the requirements as set forth by Peace Officer Standards and Training (P.O.S.T.) for California peace officer training.
- Demonstrate, through written exams, crime scene scenario testing and manipulative skills, core competencies as mandated by P.O.S.T.
- Demonstrate, through written exams, crime scene scenario testing and manipulative skills, core competencies as mandated by the California Department of Fish and Wildlife.

Required courses for the certificate:

AJLE 141	Law Enforcement Academy; Fish and Wildlife Emphasis	(P/C)	48
AJLE 100	Law Enforcement Academy Physical Training	(C)	2

Certificate of Achievement in Law Enforcement Academy - Basic/State Parks Emphasis

53.5 Units

Program Code: 36240.00CA
Type: Career
GE: None

About the Program

The Law Enforcement Academy program (State Parks emphasis) is designed to prepare students to meet entry-level requirements for jobs in the law enforcement profession generally, and with the California Department of Parks and Recreation specifically. The curriculum has sufficient breadth to allow students to pursue a career in a variety of law enforcement agencies in peace officer positions. This academy also emphasizes laws and regulations regularly enforced by the Department of Parks and Recreation.

Careers in law enforcement as peace officers are constantly open statewide. There are currently thousands of peace officer job openings in the State of California, with at least 2770 additional openings expected each year for the next several years. Additionally, the State of California, Department of Parks and Recreation has over 125 current vacancies and is experiencing approximately 55-60 peace officer vacancies each year. Satisfactory completion of the Butte College Basic Law Enforcement Academy with a State Parks emphasis meets the 42 Learning Domain requirements for the California Commission on Peace Officer Standards and Training and qualifies graduates to apply for these entry-level peace officer positions.

Gainful Employment Information
Certificate of Achievement in Law Enforcement Academy - Basic/State Parks Emphasis:
http://www.butte.edu/academicprograms/

Admission to the Program

Students are admitted to this program by special application only. Students must either be approved, accepted and employed as State Park Peace Officer Cadet Rangers or Lifeguards for the California Department of Parks and Recreation or as peace officer trainees by a California law enforcement agency, or they must meet the following requirements:

Must have a high school diploma from an accredited high school, or a GED Certificate;Must pass Peace Officer Standards and Training Entry Level Law Enforcement Test Battery (PELLET-B) exam with a score of 42 or higher;Must pass Law Enforcement Academy Physical Training Test, a 1.5 mile run which must be completed in 15minutes of less, and no more than 3 months prior to the first day of the academy;Must complete Butte College Law Enforcement Academy Orientation;Must possess a valid, unrestricted driver's license with no current or recent suspensions;Must provide California Department of Justice clearance within 90 days of the start of the academy which confirms that the applicant has no felony or misdemeanor convictions or circumstances which would prohibit possession of a firearm; andMust provide proof of completion of a medical suitability examination

Additional information about the Butte College Law Enforcement Academy-Basic/State Parks Emphasis, and application for admission to the program, is available at: www.butte.edu/departments/careertech/publicsafety/state-park-ranger.html

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Meet or exceed the requirements as set forth by Peace Officer Standards and Training (P.O.S.T.) for California Peace Officer training.
- Demonstrate technical proficiency in all skills necessary to fulfill the role of an Emergency Medical Responder.
- Demonstrate competence and understanding of the "Four Basic Safety Rules" for handling firearms.
- Demonstrate the ability to field strip a rifle and to properly clean and maintain it.
- Explain policy regarding the use of firearms.
- Demonstrate the ability to properly load, unload, clear malfunctions and fire a rifle.
- Demonstrate the fundamentals of rifle marksmanship to fire accurately from the prone, kneeling, sitting and standing positions.
- Demonstrate proficiency and obtain qualification as being certified as competent in the use of a rifle.
- Demonstrate, through written exams, crime scene scenario testing, and manipulative skills, core competencies as mandated by P.O.S.T.
- Demonstrate, through written exams, DPR scenario testing, and manipulative skills, core competencies as mandated by DPR.
- Evaluate and manage their physical fitness and maintain a healthy lifestyle in order to safely and effectively perform peace officer duties
- Describe the connection between proper nutrition and maintaining body composition, physical conditioning, and reducing the risk of illness or injury.
- Identify and describe common health problems and utilize appropriate risk management techniques to ensure health and physical fitness.
- Demonstrate competency through written examinations and a themed interpretive presentation in Basic Interpretive Learning Systems (BILS).
- Describe and interpret state and federal laws, rules, regulations decisions, court cases and guidelines which relate to accessibility to public parks and interpretive programs.
- Describe the public safety officerâ€™s role in the EMS system.

Required courses for the certificate:

AJLE 100	Law Enforcement Academy Physical Training	(C)	2
AJLE 130	Law Enforcement Academy; Basic/State Parks Emphasis	(P/C)	43
AJLE 131	Basic Interpretation Learning System (BILS); State Parks Emphasis		4.5
AJLE 132	Emergency Medical Responder; State Parks Emphasis		3.5
AJLE 133	Patrol Rifle	(P)	.5

Allied Health (ALH)

AS-T Degree in Public Health Science

Mike Smith, Chair (530) 895-2321
Department Office: AHPS 215, (530) 895-2328
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Public Health Science — 60 Units Minimum

Program Code: 37059.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

The Associate in Science in Public Health Science for Transfer is intended for students who plan to complete a bachelor's degree in Associate in Science at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Compare and contrast the differences between Public Health versus Medical Care services provided locally, statewide and nationally.
- Explain the differences in science, politics and prevention as related to and intertwined within the public health field.
- Describe the science of public health.
- Define the importance the Public Health care field plays in relationship to prevention and intervention of diseases and conditions.
- Interpret the economic role and responsibility of the field of Public Health in our society today.

Required courses for the major:			**33 - 35 Units**
HLTH 2	Health and Wellness		3
ALH 3	Introduction to Public Health		3
MATH 18	Introduction to Statistics	(P)	4
BIOL 1	Introduction to Biology		4
CHEM 51	Elementary Inorganic Chemistry	(P)	5
or CHEM 1	General Chemistry I (5)	(P)	
PSY 1	Principles of Psychology		3
BIOL 20	Human Anatomy		4
BIOL 21	Human Physiology	(P)	4
List A Select One Course:			
ECON 4	Principles of Microeconomics	(P)	3
ECON 2	Principles of Macroeconomics	(P)	3
FN 2	Nutrition		3
FN 50	Nutrition and Diet Therapy		4
SOC 2	Principles of Sociology		3
BIOL 15	Introduction to Microbiology	(P)	5
CMST 10	Interpersonal Communication		3
ANTH 4	Cultural Anthropology		3

Anthropology (ANTH)

AA-T Degree in Anthropology

Randy Cousineau, Chair (530) 895-2492
Department Office: LRC 304, (530) 895-2471
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Anthropology — 60 Units Minimum

Program Code: 31964.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Anthropology is the study of humans worldwide, both in the past and present. The program is designed to introduce students to culture as the core concept for understanding human behavior. The four subfields of anthropology (physical, archaeological, linguistics and cultural) are used as a foundation to examine varied perspectives about the world. Anthropology students graduate with an awareness of cultural and biological diversity and the complexity of past and contemporary societies. The degree offers courses required in the CSU, Chico major core program, in addition to courses approved for CSU General Education.

The program in anthropology is designed to prepare students for a variety of exciting careers, which may include education, research, medicine, business, non-profit and public service fields. As an example, anthropologists may be employed on international research teams, such as with Centers for Disease Control and Prevention scientists working to control Ebola outbreaks in West Africa. Anthropologists may also be employed as resident scientists at the Intel Corporation or as curation specialists in the US Army Corps of Engineers. Numerous anthropological skills, such as the ability to think critically and creatively about the world and the ability to apply research methods to solve problems, translate to various employment sectors. For more information on possible careers, please visit the American Anthropology Association's Careers in Anthropology webpage, http://www.americananthro.org/AdvanceYourCareer/Content.aspx?ItemNumber=1783

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and discuss major topics relevant to Physical Anthropology, including human and primate evolution and variation among hominids.
- Define culture and apply the concept to a broad cross-cultural understanding of human behavior.
- Examine past cultural systems through analysis of physical cultural remains.
- Describe and analyze human linguistic systems and the influence of language on human perceptions of the world.

Required courses for the major: **18 - 20 Units**

Required Core:			
ANTH 4	Cultural Anthropology		3
ANTH 2	Physical Anthropology		3
ANTH 16	Archaeology and Ancient Societies		3
List A: Select one			
ANTH 13	Magic, Witchcraft and Religion		3
ANTH 14	Language and Culture		3
MATH 18	Introduction to Statistics	(P)	4
List B: Select one to two			
Any course from List A not already used			
PSY 7	Introduction to Research Methods in Psychology	(P)	3
BIOL 20	Human Anatomy		4
GEOG 20	Introduction to Geographic Information Systems		3
GEOL 32	Physical Geology with Lab		4
List C: Select one			
Any course from List A or B not already used			
ANTH 18	World Cultures		3
ANTH 32	Native Americans		3
ANTH 33	Ancient Mesoamerica		3
ANTH 34	Native Americans Today		3

Art (ART)

AA-T Degree in Art History
AA-T Degree in Studio Arts
AA Degree in Arts
AA Degree in Ceramics
Certificate of Achievement in Ceramics

Daniel Donnelly, Chair (530) 895-2880
Department Office: ARTS 224, (530) 895-2404
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Art History

60 Units Minimum

Program Code: 31951.01AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify, examine, and assess representative works of art and architecture from diverse world cultures and time periods employing appropriate art historical terminology.
- Analyze, discuss, and differentiate works of art and architecture in terms of historical context.
- Analyze, discuss, and distinguish the roles of art, architecture, and the artist from diverse world cultures and time periods.
- Employ college-level writing skills, creativity, and critical thinking in completing independent projects in the field of Art History.

Required courses for the major: **18 Units**

Required Core:		
ART 2	Art History Survey I	3
or ART 2H	Honors Art History Survey I (3)	
ART 4	Art History Survey II	3
or ART 4H	Honors Art History Survey II (3)	
ART 8	Basic Drawing	3
List A: Select one		
ART 3	Asian Art History Survey	3
ART 6	African, Oceanic, and Native American Art History Survey	3
List B: Select One		
ART 7	2-D Foundations	3
ART 9	3-D Foundation	3
ART 14	Basic Figure Drawing	3
MSP 30	Introduction to Digital Art	3
ART 50	Beginning Ceramics	3
PHO 2	Introduction to Photography	3
ART 60	Beginning Sculpture	3
List C: Select one		
Any course from List A or B not already used		
ART 5	Survey of Modern Art	3
ART 1	Art Appreciation	3

AA-T Degree in Studio Arts

60 Units Minimum

Program Code: 32093.01AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Employ technical skills, creativity, critical thinking, and conceptual problem-solving in completing independent projects in the fields of Visual Art, Design, and Studio Arts.
- Analyze, compare, and synthesize significant global ideas and primary original works of art and architecture from diverse cultures and time periods.
- Produce, present, and describe a portfolio consisting of original artworks and/or writing about art.
- Demonstrate expert and safe use of a variety of equipment, materials, software, and tools, when performing, writing about, and/or creating works of art.

Required courses for the major: **24 Units**

Required Core:		
ART 4	Art History Survey II	3
or ART 4H	Honors Art History Survey II (3)	
ART 7	2-D Foundations	3
ART 9	3-D Foundation	3
ART 8	Basic Drawing	3
List A: Select one		
ART 2	Art History Survey I	3
or ART 2H	Honors Art History Survey I (3)	
ART 3	Asian Art History Survey	3
ART 6	African, Oceanic, and Native American Art History Survey	3
List B: Select three		
ART 14	Basic Figure Drawing	3
ART 17	Beginning Painting	3
ART 23	Introduction to Printmaking	3
ART 50	Beginning Ceramics	3
ART 60	Beginning Sculpture	3
MSP 30	Introduction to Digital Art	3
PHO 2	Introduction to Photography	3
ART 81	Introduction to Fiber Arts	3

AA Degree in Arts

60 Units Minimum

Program Code: 01329.01AA
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Employ technical skills, creativity, critical thinking, and conceptual problem solving in completing independent projects in the fields of Visual Art, Design, and/or Art History.
- Analyze, compare, and synthesize significant global ideas and primary original works of art and architecture from diverse cultures and time periods.
- Produce, present, and describe a portfolio consisting of original artworks and/or writing about art.
- Demonstrate expert and safe use of a variety of equipment, materials, software, and tools, when performing, writing about, and/or creating works of art.

Required courses for the major:			**24 - 27 Units**
Must complete core plus one CSU, Chico Option			
Required Core Courses			
ART 7	2-D Foundations		3
ART 8	Basic Drawing		3
ART 9	3-D Foundation		3
Art Education Option at CSU, Chico			
ART 1	Art Appreciation		3
ART 17	Beginning Painting		3
ART 23	Introduction to Printmaking		3
MSP 30	Introduction to Digital Art		3
ART 50	Beginning Ceramics		3
Select one from:			
ART 14	Basic Figure Drawing		3
PHO 4	Color Photography	(P)	3
ART 60	Beginning Sculpture		3
Art Studio Option at CSU, Chico			
ART 4	Art History Survey II		3
ART 14	Basic Figure Drawing		3
Select one from:			
ART 2	Art History Survey I		3
ART 3	Asian Art History Survey		3
ART 6	African, Oceanic, and Native American Art History Survey		3
Select two from:			
PHO 2	Introduction to Photography		3
PHO 4	Color Photography	(P)	3
ART 50	Beginning Ceramics		3
ART 60	Beginning Sculpture		3

AA Degree in Ceramics — 60 Units Minimum

Program Code: 11128.00AA
Type: Local
GE: Butte Local

About the Program

The Ceramics program offers a solid foundation in the technical and aesthetic aspects of the medium. Students are taught the importance of minute details as well as overall excellence. Many specific skills are emphasized including handbuilding, wheel throwing, clay and glaze chemistry, mold making, kiln firings, and the specialized techniques of raku and primitive firings. Students have access to a fully equipped studio and have the opportunity to learn the operational requirements of the facility. Although ceramics as an art medium is emphasized, students also study the inter-relationship between industry, business and ceramics. The program offers a well rounded art education including the ability to install exhibitions. A working portfolio for employment purposes is developed. The Ceramics Department offers courses which satisfy lower division requirements in many of the CSUs.

Many job opportunities exist for the individual proficient in ceramics. These include, but are not limited to: artist, art teacher or therapist, self-employed craft-person, mold maker, glaze technician, ceramic restorer, industrial ceramist, gallery or art shop manager, museum employee, interior design specialist, tile decorator, dental ceramist, and production designer. Students interested in pursuing a four-year degree are provided with a strong foundation for further coursework.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Employ technical skills, creativity, critical thinking, and conceptual problem solving in completing independent visual art projects in the medium of ceramics.
- Analyze, compare, and synthesize significant global ideas and primary original works of ceramic art from diverse cultures and time periods.
- Produce, present, and describe a portfolio consisting of original ceramic artworks.
- Demonstrate proficient and safe use of a variety of equipment, materials, and tools when creating works of ceramic art.

Required courses for the major:			**26 Units**
ART 2	Art History Survey I		3
or ART 2H	Honors Art History Survey I (3)		
or ART 4	Art History Survey II (3)		
or ART 4H	Honors Art History Survey II (3)		
ART 7	2-D Foundations		3
or ART 9	3-D Foundation (3)		
ART 8	Basic Drawing		3
ART 50	Beginning Ceramics		3
ART 52	Intermediate Ceramics	(P)	3
ART 54	Ceramics-Low Fire	(P)	3
ART 56	Advanced Ceramics	(P)	3
ART 60	Beginning Sculpture		3
ART 70	Gallery Production/Business of Art		2

Certificate of Achievement in Ceramics — 18 Units

Program Code: 11128.00CA
Type: Local
GE: None

About the Program

See AA Degree in Ceramics

Gainful Employment Information
Certificate of Achievement in Ceramics
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Employ technical skills, creativity, critical thinking, and conceptual problem solving in completing independent visual art projects in the medium of ceramics.
- Analyze, compare, and synthesize significant global ideas and primary original works of ceramic art from diverse cultures and time periods.
- Produce, present, and describe a portfolio consisting of original ceramic artworks.
- Demonstrate proficient and safe use of a variety of equipment, materials, and tools when creating works of ceramic art.

Required courses for the certificate:

ART 8	Basic Drawing		3
ART 50	Beginning Ceramics		3
ART 52	Intermediate Ceramics	(P)	3
ART 54	Ceramics-Low Fire	(P)	3
ART 56	Advanced Ceramics	(P)	3
ART 70	Gallery Production/Business of Art		2
ART 99	Work Experience-ART	(P)	1

Automotive Technology (AUT)

AS Degree in Automotive Technology
AS Degree in Automotive Technology - Honda, Professional Automotive Career Training (PACT)
AS Degree in Diesel Technology
Certificate of Achievement in Automotive Technology
Certificate of Achievement in Automotive Technology - Honda, Professional Automotive Career Training (PACT)
Certificate of Achievement in Diesel Technology

Rob Holt, Chair (530) 895-2549
Department Office: SC 115 (530) 895-2549, (530) 895-2549
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Automotive Technology

60 Units Minimum

Program Code: 01323.00AS
Type: Career
GE: Butte Local

About the Program

The Butte College Automotive Technology program is an ASE/NATEF certified school and is designed to prepare students for employment as automotive technicians in both dealerships and independent garages. All automotive classes are offered at the Skyway Center in Chico. The Skyway Center is a modern facility and completely outfitted with the power and hand tools needed to hone the student's skills. The goal of the department is to train highly-skilled entry-level technicians with work habits that will make them successful. The Automotive Department has partnered with American Honda and Subaru. This allows for make specific training and certification via the PACT Program (Honda and Acura) and Subaru.

Automotive career opportunities are offered nation wide along with paid internships for Honda PACT students. Help with job placement is available for successful students. For Career information please refer to our website: www.butte.edu/departments/careertech/automotive

Admission to the Program

There is a limitation on enrollment into the Automotive program. If you are interested in this program and would like to make an appointment to get on the Automotive waiting list, please refer to our website: www.butte.edu/departments/careertech/automotive/

From our greeting page follow the links:
"Get Started Today"
"Click Here To Make an Appointment"
Fill out the information fields on the Appointment Contact Information Sheet, and then click the "Send Form" button. You will receive an appointment confirmation within two to three weeks.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the principles of operation and maintenance required to repair all systems of the modern automobile.
- Safely and correctly maintain, diagnose and repair specific areas of the vehicle.

Required courses for the major: **48.5 Units**

AUT 41	Specialized Automotive Electronics and Microcomputers		5.5
AUT 6	Automotive Electrical Systems Lecture	(P/C)	2
AUT 7	Automotive Electrical Systems Lab	(P/C)	2
AUT 8	Auto Engines Lecture	(P/C)	2.5
AUT 9	Automotive Engines Lab	(P/C)	2.5
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	(P/C)	3
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	(P/C)	3
AUT 22	Automotive Heating and Air Conditioning Lecture	(P/C)	2
AUT 23	Automotive Heating and Air Conditioning Lab	(P/C)	2
AUT 52	Automatic Transmissions/Transaxles Lecture	(P/C)	3
AUT 53	Automatic Transmissions/Transaxles Lab	(P/C)	3
AUT 56	Manual Transmissions/Drivetrains Lecture	(P/C)	2
AUT 57	Manual Transmissions/Drivetrains Lab	(P/C)	2
AUT 30	Engine Performance and Emission Controls Lecture	(P/C)	5
AUT 31	Engine Performance and Emission Controls Lab	(P/C)	5
AUT 60	Hybrid and Alternative Fuel Technologies		4

AS Degree in Automotive Technology - Honda, Professional Automotive Career Training (PACT)

60 Units Minimum

Program Code: 38066.00AS
Type: Career
GE: Butte Local

About the Program

The Associate of Science Degree in Automotive Technology - Honda, Professional Automotive Career Training (PACT) prepares students to enter the workforce as entry level Honda and Acura technicians in dealerships nationwide. After program completion, the student will also receive a nationally recognized certification from American Honda that indicates the completion of standardized curriculum delivered at all PACT schools across the nation.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the principles of operation and maintenance required to repair all systems of Honda and Acura automobiles.
- Safely and correctly maintain, diagnose and repair specific areas of Honda and Acura automobiles.

Required courses for the major: **51 Units**

AUT 2	Honda Express Service		2
AUT 3	Honda PACT Specialized Automotive Electronics		6
AUT 6	Automotive Electrical Systems Lecture	(P/C)	2
AUT 7	Automotive Electrical Systems Lab	(P/C)	2
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	(P/C)	3
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	(P/C)	3
AUT 8	Auto Engines Lecture	(P/C)	2.5
AUT 9	Automotive Engines Lab	(P/C)	2.5
AUT 22	Automotive Heating and Air Conditioning Lecture	(P/C)	2
AUT 23	Automotive Heating and Air Conditioning Lab	(P/C)	2
AUT 52	Automatic Transmissions/Transaxles Lecture	(P/C)	3
AUT 53	Automatic Transmissions/Transaxles Lab	(P/C)	3

AUT 56	Manual Transmissions/Drivetrains Lecture	(P/C)	2
AUT 57	Manual Transmissions/Drivetrains Lab	(P/C)	2
AUT 30	Engine Performance and Emission Controls Lecture	(P/C)	5
AUT 31	Engine Performance and Emission Controls Lab	(P/C)	5
AUT 60	Hybrid and Alternative Fuel Technologies		4

AS Degree in Diesel Technology

60 Units Minimum

Program Code: 38059.00AS
Type: Career
GE: Butte Local

About the Program

The Associate of Science Degree in Diesel Technology has been developed to provide the light and medium duty diesel industry with well-prepared, entry level technicians. Our rural location and its heavy agricultural influence necessitates the need for technicians who are trained the area of diesel powered trucks and equipment. This program will prepare the student to diagnose the mechanical, electrical, and hydraulic systems found on over the road diesel powered vehicles and equipment.
On successful completion of the Diesel Technology Program, students will enter the industry with their Section 609 Compliance Certification, making it possible to service refrigeration units. Along with the 6019 Certification, students will also receive their Department of Transportation (D.O.T.) brake inspection certification.

Career Opportunities

A career as a Diesel Technician offers a higher starting and hourly mean wage than that of a light car and truck technicians (Bureau of Labor Statistics May 2016). With that, the areas that offer employment opportunities range from heavy equipment dealers/shops, fleet maintenance facilities, public and private, along with new car/truck dealers. This diversity offers a lot of flexibility regarding location. Employment can be found in urban areas as well as rural farming communities.

Admission to the Program

To enter the program, a perspective student would need to fill out the "Get Started!" form on the department website. This prompts an appointment with the Department Chair at which time the student can have any questions answered as well as lean about the diesel repair industry. Tools, safety glasses and uniforms are provided as the student progresses through the program. Partnerships with various tool companies, which offer deep discounts to students while in the program, make it possible for students to purchase an entry level tool set prior to graduation.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the operation of diesel engine components and systems.
- Operate shop machinery and equipment including hoists, hydraulic jacks, steam cleaners, floor jacks, disassembly stands, grinders, drill presses, hydraulic presses, and bead blasters.
- Select and use precision tools such as torque wrenches, micrometers, dial indicators, tap and dies, and bore gauges.
- Maintain professional attitude in challenging working conditions.
- Identify various diesel engine applications.
- Apply the state and federal regulations of Occupational Safety and Health Association (OSHA) and the Environmental Protection Agency (EPA).
- Apply general principles of preventive maintenance to diesel repair.
- Demonstrate proficiency in the use of industry standard tools and precision measuring instruments.
- Apply safe work habits and practices.
- Troubleshoot and perform repairs on mechanical, electrical, hydraulic and electronic systems.
- Use computers to diagnose equipment and research information
- Perform preventative maintenance such as engine tune-ups, front-end alignments, and brake adjustments.

Required courses for the major: **54.5 Units**

WLD 20	Beginning Welding		4
AUT 41	Specialized Automotive Electronics and Microcomputers		5.5
AUT 52	Automatic Transmissions/Transaxles Lecture	(P/C)	3
AUT 53	Automatic Transmissions/Transaxles Lab	(P/C)	3
AUT 56	Manual Transmissions/Drivetrains Lecture	(P/C)	2
AUT 57	Manual Transmissions/Drivetrains Lab	(P/C)	2
AUT 8	Auto Engines Lecture	(P/C)	2.5
AUT 9	Automotive Engines Lab	(P/C)	2.5
AUT 22	Automotive Heating and Air Conditioning Lecture	(P/C)	2
AUT 23	Automotive Heating and Air Conditioning Lab	(P/C)	2
AUT 73	Fundamentals Of Over The Road Diesel Vehicles Lecture	(P/C)	5
AUT 74	Fundamentals Of Over The Road Diesel Vehicles Lab	(P/C)	5
AUT 30	Engine Performance and Emission Controls Lecture	(P/C)	5
AUT 31	Engine Performance and Emission Controls Lab	(P/C)	5
AUT 72	Diesel Engine Performance	(P)	6

Certificate of Achievement in Automotive Technology

48.5 Units

Program Code: 01323.00CA
Type: Career
GE: None

About the Program

See AS Degree in Automotive Technology.

Gainful Employment Information
Certificate of Achievement in Automotive Technology:
http://www.butte.edu/academicprograms/

Admission to the Program

See AS Degree in Automotive Technology.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the principles of operation and maintenance required to repair all systems of the modern automobile.
- Safely and correctly maintain, diagnose and repair specific areas of the vehicle.

Required courses for the certificate:

AUT 41	Specialized Automotive Electronics and Microcomputers		5.5
AUT 6	Automotive Electrical Systems Lecture	(P/C)	2
AUT 7	Automotive Electrical Systems Lab	(P/C)	2
AUT 8	Auto Engines Lecture	(P/C)	2.5
AUT 9	Automotive Engines Lab	(P/C)	2.5
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	(P/C)	3
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	(P/C)	3
AUT 22	Automotive Heating and Air Conditioning Lecture	(P/C)	2
AUT 23	Automotive Heating and Air Conditioning Lab	(P/C)	2
AUT 52	Automatic Transmissions/Transaxles Lecture	(P/C)	3
AUT 53	Automatic Transmissions/Transaxles Lab	(P/C)	3
AUT 56	Manual Transmissions/Drivetrains Lecture	(P/C)	2

AUT 57	Manual Transmissions/Drivetrains Lab	(P/C)	2
AUT 30	Engine Performance and Emission Controls Lecture	(P/C)	5
AUT 31	Engine Performance and Emission Controls Lab	(P/C)	5
AUT 60	Hybrid and Alternative Fuel Technologies		4

Certificate of Achievement in Automotive Technology - Honda, Professional Automotive Career Training (PACT)

51 Units

Program Code: 37972.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in Automotive Technology - Honda, Professional Automotive Career Training (PACT) prepares students to enter the workforce as entry level Honda and Acura technicians in dealerships nationwide. After program completion, the student will also receive a nationally recognized certification from American Honda that indicates the completion of standardized curriculum delivered at all PACT schools across the nation.

Gainful Employment Information
Certificate of Achievement in Automotive Technology - Honda, Professional Automotive Career Training (PACT):
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the principles of operation and maintenance required to repair all systems of Honda and Acura automobiles.
- Safely and correctly maintain, diagnose and repair specific areas of Honda and Acura automobiles.

Required courses for the certificate:

AUT 2	Honda Express Service		2
AUT 3	Honda PACT Specialized Automotive Electronics		6
AUT 6	Automotive Electrical Systems Lecture	(P/C)	2
AUT 7	Automotive Electrical Systems Lab	(P/C)	2
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	(P/C)	3
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	(P/C)	3
AUT 8	Auto Engines Lecture	(P/C)	2.5
AUT 9	Automotive Engines Lab	(P/C)	2.5
AUT 22	Automotive Heating and Air Conditioning Lecture	(P/C)	2
AUT 23	Automotive Heating and Air Conditioning Lab	(P/C)	2
AUT 52	Automatic Transmissions/Transaxles Lecture	(P/C)	3
AUT 53	Automatic Transmissions/Transaxles Lab	(P/C)	3
AUT 56	Manual Transmissions/Drivetrains Lecture	(P/C)	2
AUT 57	Manual Transmissions/Drivetrains Lab	(P/C)	2
AUT 30	Engine Performance and Emission Controls Lecture	(P/C)	5
AUT 31	Engine Performance and Emission Controls Lab	(P/C)	5
AUT 60	Hybrid and Alternative Fuel Technologies		4

Certificate of Achievement in Diesel Technology

54.5 Units

Program Code: 37941.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in Diesel Technology has been developed to provide the light and medium duty diesel industry with well-prepared, entry level technicians. Our rural location and its heavy agricultural influence necessitates the need for technicians who are trained the area of diesel powered trucks and equipment. This program will prepare the student to diagnose the mechanical, electrical, and hydraulic systems found on over the road diesel powered vehicles and equipment.
On successful completion of the Diesel Technology Program, students will enter the industry with their Section 609 Compliance Certification, making it possible to service refrigeration units. Along with the 6019 Certification, students will also receive their Department of Transportation (D.O.T.) brake inspection certification.

Gainful Employment Information
Certificate of Achievement in Diesel Technology:
http://www.butte.edu/academicprograms/

Career Opportunities

A career as a Diesel Technician offers a higher starting and hourly mean wage than that of a light car and truck technicians (Bureau of Labor Statistics May 2016). With that, the areas that offer employment opportunities range from heavy equipment dealers/shops, fleet maintenance facilities, public and private, along with new car/truck dealers. This diversity offers a lot of flexibility regarding location. Employment can be found in urban areas as well as rural farming communities

Admission to the Program

To enter the program, a perspective student would need to fill out the "Get Started!" form on the department website. This prompts an appointment with the Department Chair at which time the student can have any questions answered as well as lean about the diesel repair industry. Tools, safety glasses and uniforms are provided as the student progresses through the program. Partnerships with various tool companies, which offer deep discounts to students while in the program, make it possible for students to purchase an entry level tool set prior to graduation.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the operation of diesel engine components and systems.
- Operate shop machinery and equipment including hoists, hydraulic jacks, steam cleaners, floor jacks, disassembly stands, grinders, drill presses, hydraulic presses, and bead blasters.
- Select and use precision tools such as torque wrenches, micrometers, dial indicators, tap and dies, and bore gauges.
- Maintain professional attitude in challenging working conditions
- Develop self-confidence and pride in workmanship.
- Think analytically and make professional decisions
- Identify various diesel engine applications.
- Apply the state and federal regulations of Occupational Safety and Health Association (OSHA) and the Environmental Protection Agency (EPA).
- Apply general principles of preventive maintenance to diesel repair.
- Demonstrate proficiency in the use of industry standard tools and precision measuring instruments.
- Apply safe work habits and practices.
- Troubleshoot and perform repairs on mechanical, electrical, hydraulic and electronic systems.
- Use computers to diagnose equipment and research information
- Perform preventative maintenance such as engine tune-ups, front-end alignments, and brake adjustments.

Required courses for the certificate:

WLD 20	Beginning Welding		4
AUT 41	Specialized Automotive Electronics and Microcomputers		5.5
AUT 52	Automatic Transmissions/Transaxles Lecture	(P/C)	3
AUT 53	Automatic Transmissions/Transaxles Lab	(P/C)	3
AUT 56	Manual Transmissions/Drivetrains Lecture	(P/C)	2
AUT 57	Manual Transmissions/Drivetrains Lab	(P/C)	2
AUT 8	Auto Engines Lecture	(P/C)	2.5
AUT 9	Automotive Engines Lab	(P/C)	2.5
AUT 22	Automotive Heating and Air Conditioning Lecture	(P/C)	2
AUT 23	Automotive Heating and Air Conditioning Lab	(P/C)	2
AUT 73	Fundamentals Of Over The Road Diesel Vehicles Lecture	(P/C)	5
AUT 74	Fundamentals Of Over The Road Diesel Vehicles Lab	(P/C)	5
AUT 30	Engine Performance and Emission Controls Lecture	(P/C)	5
AUT 31	Engine Performance and Emission Controls Lab	(P/C)	5
AUT 72	Diesel Engine Performance	(P)	6

Business Computer Information Systems (BCIS)

AS Degree in Business Information Worker
AS Degree in Legal Office Administration
AS Degree in Medical Office Administration
Certificate of Achievement in Business Information Worker
Certificate of Achievement in Legal Office Administration
Certificate of Achievement in Medical Office Administration
Certificate in Basic Computer Competency
Certificate in Business Information Worker
Certificate in Legal Office Administration
Certificate in Medical Office Administration

Sandy Sloan, Chair (530) 895-2385
Department Office: BE 116, (530) 895-2371
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Business Information Worker — 60 Units Minimum

Program Code: 01313.02AS
Type: Career
GE: Butte Local

About the Program

The Business Information Worker (BIW) program is a two-tiered, structured career pathway for students who are interested in entering the exciting and diverse career field of office and administrative support. Butte College's BIW pathway is aligned with a California statewide program that collaborated with businesses and advisory committees across the state to identify the most in-demand and desirable knowledge and skills required of today's business information workers. Additionally, this pathway clearly communicates to students what skills they need to be successful in today's businesses, as well as provides a branded BIW pathway for businesses to quickly recognize on resumes. Please visit the ICT-DM.NET./BIW site to obtain more information and locate support resources for this pathway.

Students graduating from the BIW program, gain proficiency in business communication, professional development, records management, technology tools used to support businesses to achieve goals, such as Microsoft Office applications, collaboration tools, and desktop publishing applications.

Career related fields for the BIW include office and administrative support workers, administrative assistants, receptionists, office specialists, customer service representatives, general office and information clerks, and file clerks.

Students interested in earning an AS degree in BIW will have successfully completed the BIW Certificate and the BIW Certificate of Achievement along with general education requirements and any electives required. Taken full-time, this program can be completed in two years.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Manage office information and records.
- Communicate professionally and work effectively in a team
- Produce business documents with appropriate formatting using word processing software.
- Create spreadsheets with financial functions and charting.
- Plan and deliver individual or team oral presentations for business meetings.
- Use email and calendaring software to communicate and manage time.
- Apply the features and functions of web-based tools efficiently and effectively in order to meet the desired goals and outcomes of business.

Required courses for the major:			30 Units
BCIS 13	Business Communication		3
BCIS 18	Introduction to Business Technology		3
BCIS 20	Beginning Keyboarding		1.5
BCIS 28	Microsoft Word for Windows		3
BCIS 33	Skills for the Working Professional		1
BCIS 46	Business Math Calculations		2
BCIS 15	Web-based Tools for Business		3
BCIS 24	Advanced Keyboarding	(P)	1.5
BCIS 47	Desktop Publishing		2
BCIS 50	Office Administration		3
BCIS 51	Records Management		3
BCIS 70K	Adobe Acrobat Professional		1
BCIS 85	Microsoft Excel for Windows	(P)	3

AS Degree in Legal Office Administration — 60 Units Minimum

Program Code: 01314.01AS
Type: Career
GE: Butte Local

About the Program

The Legal Office Administration (LOA) program is a two-tiered, structured career pathway for students who are interested in entering into the challenging and highly specialized field of legal office support. Employers in the law field are looking for support personnel who have knowledge in the area of legal office procedures, processes, and research, as well as general knowledge of office administration. The LOA program is designed to meet the demands of employers and the needs of an increasingly global and technologically advancing legal industry.

As a career, the highly specialized legal field offers employment in areas such as criminal, family, probate, civil, real estate, environmental, corporate, public interest, and intellectual property law. The legal office professional's job duties may include preparing legal forms such as complaints, motions, subpoenas, affidavits, and briefs; processing legal documents; assisting with legal research; filing court papers; preparing legal communications; utilizing various office technologies; auditing financial records; scheduling meetings and calendaring court dates; handling confidential information; and taking notes on proceedings. Students graduating from the LOA program gain proficiency in beginning and advanced legal office procedures, legal research, the legal environment of business, business communication, professional development, records management, and the technology tools used to support businesses to achieve goals, such as Microsoft Office applications, collaboration tools, and adobe acrobat. Throughout the program, students are exposed to a wide variety of hands-on practical applications with an emphasis on organizational, critical thinking and problem-solving skills.

Career related fields for the LOA include Legal Administrative Assistant, Legal Assistant, Legal Staff Assistant, and Legal Office Assistant.

Students interested in earning an AS degree in LOA will have successfully completed the LOA Certificate and the LOA Certificate of Achievement along with general education requirements and any electives required. Taken full-time, this program can be completed in two years.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and explain the difference among the six areas law.
- Demonstrate workflow processes of a legal environment.
- Analyze and assess legal clients' needs to determine appropriate solutions.

- Apply computer skills to legal office activities.
- Utilize proper legal writing skills in all client and colleague communication.

Required courses for the major:		28.5 Units
BCIS 33	Skills for the Working Professional	1
BCIS 46	Business Math Calculations	2
BCIS 51	Records Management	3
BCIS 18	Introduction to Business Technology	3
BCIS 13	Business Communication	3
BCIS 70K	Adobe Acrobat Professional	1
BUS 8	Legal Environment of Business	3
BCIS 59	Beginning Legal Office Procedures	3
BCIS 60	Advanced Legal Office Procedures	3
AJ 3	Legal Research	2
BCIS 20	Beginning Keyboarding	1.5
BCIS 28	Microsoft Word for Windows	3

AS Degree in Medical Office Administration — 60 Units Minimum

Program Code: 01315.01AS
Type: Career
GE: Butte Local

About the Program

The Medical Office Administration (MOA) program is a two-tiered, structured career pathway for students who are interested in providing office support in the exciting and demanding healthcare industry. The MOA career pathway is a blend of three major areas: the advancing field of health information management (HIM), the ever-emerging field of business technology, and the constantly in-demand communication and professional skills; and it is designed to prepare students with the knowledge and skills required of today's medical office support personnel. The types of healthcare delivery systems in the United States today vary depending on the services being offered. These systems include outpatient healthcare (a physician's office, a dentist's office, and many other types of healthcare providers' facilities) and inpatient healthcare (general medical and surgical hospitals). These systems can be complex in purpose and structure. However, all healthcare organizations demand a common set of knowledge and skills from their medical office support personnel, which includes a broad understanding of healthcare delivery systems, health information management systems and practices, proficient technology skills, and a high-level of professionalism.

To meet these demands, the MOA career pathway includes courses in healthcare delivery systems, health information management systems, human systems, medical terminology, electronic health records, healthcare law and ethics, healthcare coding systems, healthcare reimbursement methodologies, electronic health records, Microsoft Office Applications (Word, Excel, PowerPoint, and Access), collaboration tools, business communication, and professional development. Career related fields for the MOA include Medical Office Receptionist, Medical Office Assistant, Front Office Representative, Medical Records Administrative Assistant, Insurance Verification Specialist, and Medical Intake Specialist. In the workplace, students can expect to perform medical office support duties including scheduling appointments; compiling and recording medical charts, reports, and correspondence; and coding health records; and billing patients. Students interested in earning an AS degree in MOA will have successfully completed the MOA Certificate and the MOA Certificate of Achievement along with general education requirements and any electives required. Taken full time, this program can be completed in two years.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Apply knowledge of medical terminology to perform outpatient/physician diagnostic coding, and determine outpatient/procedural coding based on the abstraction of medical records.
- Analyze and interpret medical information and apply sound decision-making skills pertaining to the appropriate ICD and CPT codes needed to maximize compensation for services rendered.
- Apply effective listening, verbal, written, interpersonal, and technological communication skills which prepare them for the outpatient medical workplace.
- Describe the outpatient medical workplace environment and function in that environment as a knowledgeable, skilled, and professional team member.

Required courses for the major:			29.5 Units
ALH 104	Medical Terminology		3
BCIS 18	Introduction to Business Technology		3
BCIS 33	Skills for the Working Professional		1
HIM 62	Introduction to Medical Coding		3
HIM 63	Reimbursement		3
HIM 76	Electronic Health Records		3
BCIS 13	Business Communication		3
BCIS 20	Beginning Keyboarding		1.5
BIOL 10	Survey of Human Systems		4
HIM 56	Introduction to Health Information Management		2
HIM 58	Healthcare Law and Ethics		2
BCIS 99	Work Experience-BCIS	(P)	1

Certificate of Achievement in Business Information Worker — 29.5 Units

Program Code: 01313.02CA
Type: Career
GE: None

About the Program

This is the second tier of the Business Information Worker (BIW) career pathway. Students completing this next level of certificate will take courses that are designed to build on their BIW solid foundation and allow students an opportunity to become proficient in the in-demand knowledge and skills sought out by employers.

Career related fields include office and administrative support workers, administrative assistants, receptionists, office specialists, customer service representatives, general office and information clerks, and file clerks. This certificate of achievement can be completed in one year.

Gainful Employment Information
Certificate of Achievement in Business Information Worker:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Manage office information and records.
- Communicate professionally and work effectively in a team.
- Produce business documents with appropriate formatting using word processing software.
- Create spreadsheets with financial functions and charting
- Plan and deliver individual or team oral presentations for business meetings.
- Use email and calendaring software to communicate and manage time
- Apply the features and functions of web-based tools efficiently and effectively in order to meet the desired goals and outcomes of business.

Required courses for the certificate:			
BCIS 13	Business Communication		3
BCIS 18	Introduction to Business Technology		3
BCIS 20	Beginning Keyboarding		1.5
BCIS 28	Microsoft Word for Windows		3
BCIS 33	Skills for the Working Professional		1
BCIS 46	Business Math Calculations		2
BCIS 15	Web-based Tools for Business		3
BCIS 24	Advanced Keyboarding	(P)	1
BCIS 47	Desktop Publishing		2

BCIS 50	Office Administration		3
BCIS 51	Records Management		3
BCIS 70K	Adobe Acrobat Professional		1
BCIS 85	Microsoft Excel for Windows	(P)	3

Certificate of Achievement in Legal Office Administration

28.5 Units

Program Code: 01314.01CA
Type: Career
GE: None

About the Program

This is the second tier of the Legal Office Administration (LOA) career pathway. Students completing this next level of certificate will take courses that are designed to build on their LOA solid foundation and allow students an opportunity to become proficient in the in-demand knowledge and skills sought out by employers.

Career related fields for the LOA include Legal Administrative Assistant, Legal Assistant, Legal Staff Assistant, and Legal Office Assistant. This Certificate of Achievement can be completed in one year.

Gainful Employment Information
Certificate of Achievement in Legal Office Administration:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and explain the difference among the six areas of law.
- Analyze and assess legal clients' needs to determine appropriate solutions.
- Apply computer skills to legal office activities.
- Utilize proper legal writing skills in all client and colleague communication.

Required courses for the certificate:

BCIS 33	Skills for the Working Professional	1
BCIS 46	Business Math Calculations	2
BCIS 51	Records Management	3
BCIS 18	Introduction to Business Technology	3
BCIS 13	Business Communication	3
BCIS 70K	Adobe Acrobat Professional	1
BUS 8	Legal Environment of Business	3
BCIS 59	Beginning Legal Office Procedures	3
BCIS 60	Advanced Legal Office Procedures	3
BCIS 20	Beginning Keyboarding	1.5
BCIS 28	Microsoft Word for Windows	3
AJ 3	Legal Research	2

Certificate of Achievement in Medical Office Administration

28.5 Units

Program Code: 01315.01CA
Type: Career
GE: None

About the Program

This is the second tier of the Medical Office Administration (MOA) career pathway. Students completing this next level of certificate will take courses that are designed to build on their MOA solid foundation and allow students an opportunity to become proficient in the in-demand knowledge and skills sought out by the healthcare industry.

Career related fields for the MOA include Medical Office Receptionist, Medical Office Assistant, Front Office Representative, Medical Records Administrative Assistant, Insurance Verification Specialist, and Medical Intake Specialist. This certificate of achievement can be completed in one year.

Gainful Employment Information
Certificate of Achievement in Medical Office Administration:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Apply knowledge of medical terminology to perform outpatient/physician diagnostic coding, and determine outpatient/procedural coding based on the abstraction of medical records.
- Analyze and interpret medical information and apply sound decision-making skills pertaining to the appropriate ICD and CPT codes needed to maximize compensation for services rendered.
- Apply effective listening, verbal, written, interpersonal, and technological communication skills which prepare them for the outpatient medical workplace.

Required courses for the certificate:

BCIS 18	Introduction to Business Technology	3
BCIS 13	Business Communication	3
ALH 104	Medical Terminology	3
BCIS 33	Skills for the Working Professional	1
HIM 62	Introduction to Medical Coding	3
HIM 63	Reimbursement	3
HIM 76	Electronic Health Records	3
BCIS 20	Beginning Keyboarding	1.5
BIOL 10	Survey of Human Systems	4
HIM 56	Introduction to Health Information Management	2
HIM 58	Healthcare Law and Ethics	2

Certificate in Basic Computer Competency

5.5 Units

Program Code: COMPUTERCOMP.CC

About the Program

This is typically a one-semester program. Upon completion, students will be able to apply their knowledge of basic computer operations, use input technology, and apply knowledge of file management and their operating system. They will be able to identify and describe current technologies used in today's businesses and apply these technologies to solve business problems, improve organizational productivity, and achieve the goals of business. For eligibility, students are expected to demonstrate a minimum keyboarding skill of 25 words per minute.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Apply knowledge of basic computer operations, use input technology, and apply knowledge of file management and the operating system.
- Identify and describe current technologies used in today's businesses and apply these technologies to solve business problems, improve organizational productivity, and achieve the goals of business.
- Demonstrate a minimum keyboarding skill of 25 words per minute.

Required courses for the certificate:

BCIS 20	Beginning Keyboarding		1.5
or BCIS 24	Advanced Keyboarding (1.5)	(P)	
BCIS 18	Introduction to Business Technology		3
BCIS 84	Basics of Computers		1

Certificate in Business Information Worker — 13.5 Units

Program Code: BIW.CC
Type: Career
GE: None

About the Program

This is the first tier of the Business Information Worker (BIW) career pathway. Students completing this beginning certificate will take courses that are designed to provide students with a solid foundation in business communication; business math; professional development; keyboarding; Microsoft Windows, Word, Excel, Access, and Outlook; and additional business technology tools including collaboration tools.

Career related fields include administrative assistants, office workers, office specialists, and customer service representatives. This certificate can be completed in one semester.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Solve mathematical problems; analyze and interpret data; and apply sound decision-making skills.
- Identify and describe current technologies used in today's businesses and apply these technologies to solve business problems, improve organizational productivity, and achieve the goals of business.

Required courses for the certificate:

BCIS 13	Business Communication	3
BCIS 18	Introduction to Business Technology	3
BCIS 20	Beginning Keyboarding	1.5
BCIS 28	Microsoft Word for Windows	3
BCIS 33	Skills for the Working Professional	1
BCIS 46	Business Math Calculations	2

Certificate in Legal Office Administration — 14.5 Units

Program Code: BCISLEGALADM.CC
Type: Career
GE: None

About the Program

This is the first tier of the Legal Office Administration (LOA) career pathway. Students completing this beginning certificate will take courses that are designed to provide students with a solid foundation in beginning legal office procedures; business communications; professional development; keyboarding; Microsoft Windows, Word, Excel, Access, and Outlook; and additional business technology tools including collaboration tools.

Career related fields for the LOA include Legal Administrative Assistant, Legal Assistant, Legal Staff Assistant, and Legal Office Assistant. This certificate can be completed in one semester.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and explain the difference among the six areas of law.
- Apply computer skills to legal office activities.

Required courses for the certificate:

BCIS 18	Introduction to Business Technology	3
BCIS 59	Beginning Legal Office Procedures	3
BCIS 13	Business Communication	3
BCIS 20	Beginning Keyboarding	1.5
BCIS 28	Microsoft Word for Windows	3
BCIS 33	Skills for the Working Professional	1

Certificate in Medical Office Administration — 16.5 Units

Program Code: MEDOFFADMIN.CC
Type: Career
GE: None

About the Program

This is the first tier of the Medical Office Administration (MOA) career pathway. Students completing this beginning certificate will have take courses that are designed to provide students with a solid foundation in business communications, business technology tools, keyboarding, medical terminology, human systems, and the health information management field.

Career related fields includes Medical Office Receptionist, Medical Office Assistant, and Front Office Representative. This certificate can be completed in one semester.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Analyze and interpret medical information and apply sound decision-making skills pertaining to the appropriate ICD and CPT codes needed to maximize compensation for services rendered.
- Apply effective listening, verbal, written, interpersonal, and technological communication skills which prepare them for the outpatient medical workplace.

Required courses for the certificate:

BCIS 18	Introduction to Business Technology	3
ALH 104	Medical Terminology	3
BCIS 13	Business Communication	3
BCIS 20	Beginning Keyboarding	1.5
HIM 56	Introduction to Health Information Management	2
BIOL 10	Survey of Human Systems	4

Biology (BIOL)

AS-T Degree in Biology
AS Degree in Biological Science

Gary Lechner, Chair (530) 893-7416
Department Office: TE 132, (530) 879-6106
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Biology

60 Units Minimum

Program Code: 35022.00AS-T
Type: Transfer
GE: IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

The AS-T in Biology requires completion and certification of the Intersegmental General Education Transfer Curriculum (IGETC for STEM) as well as the specific AS-T major degree requirements. Students should work with a counselor to identify major coursework that can be used to fulfill IGETC for STEM categories.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Critically analyze and accurately express an understanding of scientific work in the context of the scientific method.
- Demonstrate academic skills needed for success in biology after transfer.
- Apply knowledge of fundamental biological principles such as evolution and taxonomy and ecological, physiological and molecular processes.
- Correctly employ scientific techniques and correctly use scientific equipment.

Required courses for the major:			**38 Units**
Required Core:			
BIOL 41	Cell and Molecular Biology	(P)	5
BIOL 42	Organismal Biology	(P)	5
BIOL 43	Ecology and Evolution	(P)	5
CHEM 1	General Chemistry I	(P)	5
CHEM 2	General Chemistry II	(P)	5
MATH 30	Analytic Geometry and Calculus I	(P)	5
PHYS 21	College Physics I	(P)	4
and PHYS 22	College Physics II (4)	(P)	
OR			
PHYS 41	Physics for Scientists and Engineers I	(P)	4
and PHYS 42	Physics for Scientists and Engineers II (4)	(P)	

AS Degree in Biological Science

60 Units Minimum

Program Code: 01306.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

This major also serves as a basis for pre-medicine, pre-dentistry and pre-veterinarian students.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Critically analyze and accurately express an understanding of scientific work in the context of the scientific method.
- Demonstrate academic skills needed for success in biology after transfer.
- Apply knowledge of fundamental biological principles such as evolution and taxonomy and ecological, physiological and molecular processes.
- Correctly employ scientific techniques and correctly use scientific equipment.

Required courses for the major:			**25 Units**
BIOL 41	Cell and Molecular Biology	(P)	5
BIOL 42	Organismal Biology	(P)	5
BIOL 43	Ecology and Evolution	(P)	5
CHEM 1	General Chemistry I	(P)	5
CHEM 2	General Chemistry II	(P)	5
The following courses articulate with course's required for CSU Chico's Biological Sciences major but are not required for the Butte College AS in Biological Science.			
CHEM 21	Organic Chemistry I (5)	(P)	
PHYS 21	College Physics I (4)	(P)	
PHYS 22	College Physics II (4)	(P)	
SOC 5	Our Sustainable Future (3)		
MATH 13	Survey of Calculus (4)	(P)	

Business (BUS)

AS-T Degree in Business Administration
AS Degree in Business Administration
AS Degree in Business Management
AS Degree in Marketing
AS Degree in Small Business/Entrepreneurship
Certificate of Achievement in Business Management
Certificate of Achievement in Marketing
Certificate of Achievement in Retail Management
Certificate in Business on the Web
Certificate in Human Resources
Certificate in Small Business Institute

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Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Business Administration — 60 Units Minimum

Program Code: 31940.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Business Administration is the over arching preperation for options in Management, Marketing, Finance, Human Resource Management, and Accounting. To be successful students need basic competence in reading, written and oral communication, and mathematics. Students in this field should possess an interest in working with others, developing business strategies, and responding to today's competitive business environment.

Students completing this degree are eligible for entry level work in business. The program is designed to teach students practical skills to solve problems, organize tasks, work with and lead others, develop business strategies, make oral presentations, write reports such as business plans or case analyses.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Discuss the context in which businesses operate and the impacts of environmental factors (such as economic markets and technological, regulatory and competitive forces) on businesses.
- Use appropriate business terminology to describe the functional areas of business enterprises.
- Assess business scenarios using a systematic, evaluative, quantitative, ethical and information-based approach.
- Evaluate the legal, economic and social impacts of business decisions.
- Prepare, analyze, interpret and discuss an entity's basic financial statements, as a basis for business decisions.
- Demonstrate analytical, teamwork, oral and written communication skills and ethical and professional conduct.

Required courses for the major: — **26 - 27 Units**

Required Core:			
ACCT 2	Financial Accounting		4
ACCT 4	Managerial Accounting	(P)	4
ECON 4	Principles of Microeconomics	(P)	3
ECON 2	Principles of Macroeconomics	(P)	3
BUS 8	Legal Environment of Business		3
List A: Select one			
MATH 13	Survey of Calculus	(P)	4
MATH 18	Introduction to Statistics	(P)	4
MATH 12	Mathematics for Business Decisions (Finite Mathematics)	(P)	3
List B: Select two			
Any course from List A not already used			
CSCI 2	Business and Computer Information Systems		3
BUS 20	Introduction to Business		3

AS Degree in Business Administration — 60 Units Minimum

Program Code: 01307.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Business Administration is the over arching preparation for options in Management, Marketing, Finance, Human Resource Management, and Accounting. To be successful students need basic competence in reading, written and oral communication, and mathematics. Students in this field should possess an interest in working with others, developing business strategies, and responding to today's competitive business environment.

Students completing this degree are eligible for entry level work in business. The program is designed to teach students practical skills to solve problems, organize tasks, work with and lead others, develop business strategies, make oral presentations, write reports such as business plans or case analyses.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Discuss the context in which businesses operate and the impacts of environmental factors (including competitors and economic markets) on businesses.
- Use appropriate business terminology to describe the functional areas of business enterprises.
- Assess business scenarios using a systematic, evaluative, quantitative, ethical and information-based approach.
- Evaluate the economic, social and competitive impacts of business decisions.
- Prepare, analyze, interpret and discuss an entity's basic financial statements as a basis for business decisions.
- Demonstrate analytical, teamwork, oral and written communication skills and ethical and professional conduct.

Required courses for the major: — **24 Units**

ACCT 2	Financial Accounting		4
ACCT 4	Managerial Accounting	(P)	4
BUS 20	Introduction to Business		3
ECON 2	Principles of Macroeconomics	(P)	3
ECON 4	Principles of Microeconomics	(P)	3
MATH 12	Mathematics for Business Decisions (Finite Mathematics)	(P)	3
MATH 18	Introduction to Statistics	(P)	4

AS Degree in Business Management

60 Units Minimum

Program Code: 01310.00AS
Type: Career
GE: Butte Local

About the Program

The Business Management program is designed to provide students with a well-rounded education in business operations, management techniques, human relations, basic marketing principles, accounting, business law, economics and business computer applications. Students in this field should possess an interest in working with others, developing business strategies, and responding to today's competitive business environment.

This program is designed to teach students to solve problems, develop management strategies, make oral presentations, and write reports such as business plans and case analyses. Management skills are useful in many job settings: retail, wholesale, manufacturing, social services, government, and education. These skills are also important for people who wish to improve their performance in existing jobs or develop their own businesses.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify business terms and concepts, and effectively communicate using the language of business.
- Make effective business decisions using a systematic, evaluative, information-based approach.
- Develop and exhibit high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multicultural, team-oriented, rapidly changing environment.

Required courses for the major:			37 - 39 Units
BUS 20	Introduction to Business		3
BCIS 13	Business Communication		3
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
BUS 35	Management and Human Relations		3
ECON 4	Principles of Microeconomics	(P)	3
BUS 8	Legal Environment of Business		3
BUS 64	Principles of Marketing		3
ACCT 20	Introduction to Accounting		3
BUS 40	Organization Management		3
BUS 44	Human Resource Management		3
BUS 25	Small Business Management		3
BCIS 81	Microsoft Excel for Business		1
BCIS 33	Skills for the Working Professional		1
Electives - Select 1 course from the following:			2 - 4
BUS 50	Sales in Today's World (3)		
BUS 60	Advertising and Copywriting (3)		
BUS 68	Business on the Internet (3)		
BCIS 85	Microsoft Excel for Windows (3)	(P)	
ACCT 4	Managerial Accounting (4)	(P)	
ACCT 100	QuickBooks Pro-Computerized Accounting (2)	(P)	
BCIS 18	Introduction to Business Technology (3)		

AS Degree in Marketing

60 Units Minimum

Program Code: 01311.00AS
Type: Career
GE: Butte Local

About the Program

The Marketing program is designed to provide students with a well-rounded education in business operations, management techniques, human relations, accounting, and economics with an emphasis in marketing principles, sales, and advertising. To be successful students need basic competence in reading, written and oral communication, and mathematics. Students in this field should possess an interest in working with others, developing business strategies, and responding to today's competitive business environment.

This program is designed to teach students to solve problems, develop marketing strategies, make oral presentations, and write reports such as marketing plans and sales proposals. Marketing skills are useful in many job settings: retail, wholesale, manufacturing, social services, government, and education. These skills also are important for people who wish to improve their performance in existing jobs or develop their own businesses.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify business terms and concepts, and effectively communicate using the language of business.
- Make effective business decisions using a systematic, evaluative, information-based approach.
- Develop and exhibit high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multicultural, team-oriented, rapidly changing environment.

Required courses for the major:			41 Units
BUS 20	Introduction to Business		3
BCIS 13	Business Communication		3
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
BUS 35	Management and Human Relations		3
ECON 4	Principles of Microeconomics	(P)	3
BUS 8	Legal Environment of Business		3
BUS 64	Principles of Marketing		3
ACCT 20	Introduction to Accounting		3
BUS 50	Sales in Today's World		3
BUS 60	Advertising and Copywriting		3
BUS 68	Business on the Internet		3
BCIS 33	Skills for the Working Professional		1
BCIS 81	Microsoft Excel for Business		1
Electives - Select 6 units from the following:			6
ART 31	Graphic Design I (3)		
BUS 25	Small Business Management (3)		
BCIS 47	Desktop Publishing (2)		
MSP 5	Introduction to Interactive Web Design and Authoring (3)		
MSP 74	Multimedia Production I (3)		
BCIS 15	Web-based Tools for Business (3)		
BCIS 18	Introduction to Business Technology (3)		

AS Degree in Small Business/ Entrepreneurship

60 Units Minimum

Program Code: 11122.00AS
Type: Career
GE: Butte Local

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify business terms and concepts, and effectively communicate using the language of business.
- Make effective business decisions using a systematic, evaluative, information-based approach.
- Develop and exhibit high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multi-cultural, team-oriented, rapidly-changing environment.

Required courses for the major:			37 - 38 Units
BUS 20	Introduction to Business		3
BCIS 13	Business Communication		3
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
BUS 35	Management and Human Relations		3
ECON 4	Principles of Microeconomics	(P)	3
BUS 8	Legal Environment of Business		3
BUS 64	Principles of Marketing		3
ACCT 128	Bookkeeping		2
or ACCT 20	Introduction to Accounting (3)		
BUS 25	Small Business Management		3
BUS 44	Human Resource Management		3
or BUS 40	Organization Management (3)		
BUS 68	Business on the Internet		3
BCIS 33	Skills for the Working Professional		1
BCIS 81	Microsoft Excel for Business		1
Electives - Select 3 units from the following:			3
BUS 60	Advertising and Copywriting (3)		
BUS 50	Sales in Today's World (3)		
BCIS 85	Microsoft Excel for Windows (3)	(P)	
BCIS 18	Introduction to Business Technology (3)		

Certificate of Achievement in Business Management — 30 Units

Program Code: 01310.00CA
Type: Career
GE: None

About the Program

See AS Degree in Business Management.

Gainful Employment Information
Certificate of Achievement in Business Management:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify business terms and concepts, and effectively communicate using the language of business.
- Make effective business decisions using a systematic, evaluative, information-based approach.
- Develop and exhibit high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multicultural, team-oriented, rapidly changing environment.

Required courses for the certificate:

BUS 20	Introduction to Business		3
BCIS 18	Introduction to Business Technology		3
BCIS 13	Business Communication		3
or CMST 2	Public Speaking (3)		
or CMST 2H	Honors Public Speaking (3)		
BUS 35	Management and Human Relations		3
ECON 4	Principles of Microeconomics	(P)	3
BUS 64	Principles of Marketing		3
ACCT 20	Introduction to Accounting		3
BUS 25	Small Business Management		3
BUS 40	Organization Management		3
BUS 44	Human Resource Management		3

Certificate of Achievement in Marketing — 29 Units

Program Code: 01311.00CA
Type: Career
GE: None

About the Program

See AS Degree in Marketing.

Gainful Employment Information
Certificate of Achievement in Marketing:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify business terms and concepts, and effectively communicate using the language of business.
- Make effective business decisions using a systematic, evaluative, information-based approach.
- Develop and exhibit high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multicultural, team-oriented, rapidly changing environment.

Required courses for the certificate:

BUS 20	Introduction to Business		3
BCIS 13	Business Communication		3
or CMST 2	Public Speaking (3)		
or CMST 2H	Honors Public Speaking (3)		
BUS 35	Management and Human Relations		3
ECON 4	Principles of Microeconomics	(P)	3
BUS 64	Principles of Marketing		3
ACCT 20	Introduction to Accounting		3
BUS 50	Sales in Today's World		3
BUS 60	Advertising and Copywriting		3
BUS 68	Business on the Internet		3
BCIS 33	Skills for the Working Professional		1
BCIS 81	Microsoft Excel for Business		1

Certificate of Achievement in Retail Management — 30 Units

Program Code: 01317.01CA
Type: Career
GE: None

About the Program

The Retail Management program is designed to provide students with a well-rounded education in business operations, management techniques, human relations, basic marketing principles, accounting, business law, economics and business computer applications, with an emphasis in retailing.

Students completing the program in Retail Management will increase their practical business skills relating to devising plans, organizing tasks, leading others, and controlling operations. Customer service positions, retail associate, sales associate, assistant store manager, retail manager are positions in this field.

Gainful Employment Information
Certificate of Achievement in Retail Management:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Define the terms, principles and theories relating to retail planning, strategy and implementation.
- Conduct a retail audit to demonstrate mastery of course concepts including customer buying behavior, retail planning, strategy, store layout, visual merchandising, and operations.
- Analyze a retail marketing strategy and its appropriateness given target market(s).

Required courses for the certificate:

BUS 20	Introduction to Business		3
BCIS 18	Introduction to Business Technology		3
BCIS 13	Business Communication		3
or CMST 2	Public Speaking (3)		
or CMST 2H	Honors Public Speaking (3)		
BUS 35	Management and Human Relations		3
ECON 4	Principles of Microeconomics	(P)	3
BUS 64	Principles of Marketing		3
ACCT 20	Introduction to Accounting		3
BUS 66	Retail Management		3
BUS 50	Sales in Today's World		3
or BUS 60	Advertising and Copywriting (3)		
BUS 44	Human Resource Management		3
or BUS 40	Organization Management (3)		

Certificate in Business on the Web

15 Units

Program Code: BUSONWEB.CC
Type: Career
GE: None

About the Program

Students are introduced to web marketing tools, strategies, application and measurement. It examines benefits and challenges associated with web marketing technologies including web site development, search engine optimization, online advertising, social media, email campaigns, blog marketing, digital public relations, multimedia and mobile marketing. Students will learn how to create a web marketing strategy and then apply web marketing technologies in a measurable way to achieve business objectives.

The certificate is designed to provide students with an exposure to web marketing tools and strategies which would qualify the student to work as a web assistant to help manage a company's online presence.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Understand business terms and concepts, and effectively communicate using the language of business.
- Make effective web-based business decisions using a systematic, evaluative, information-based approach.

Required courses for the certificate:

BUS 64	Principles of Marketing	3
BUS 68	Business on the Internet	3
BCIS 13	Business Communication	3
BCIS 15	Web-based Tools for Business	3
BUS 25	Small Business Management	3

Certificate in Human Resources

17 Units

Program Code: HUMANRES.CC
Type: Career
GE: None

About the Program

Students explore important issues in human resources management including: changing government and legal requirements, downsizing, attention to and appreciation for diversity, global workforce development, the role of information systems, and changing cultural and economic factors.

The certificate is designed to provide students with an exposure to management and human resource concepts which would qualify the student to work as a human resources assistant. Human resource assistants help with recruiting, hiring, employee orientation, training, development, compensation, benefits, safety and wellness of employees.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Analyze theories and strategies for maximizing employee productivity and motivation.
- Identify and describe federal and state compliance requirements relating to payroll and human resource management.
- Identify and demonstrate high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multi-cultural, team-oriented, rapidly-changing environment.

Required courses for the certificate:

BUS 35	Management and Human Relations	3
BUS 40	Organization Management	3
BUS 44	Human Resource Management	3
ACCT 110	Accounting for Payroll	3
BUS 8	Legal Environment of Business	3
BCIS 86	Microsoft Access for Windows	2

Certificate in Small Business Institute

9 - 10 Units

Program Code: SMALLBUSINST.CC
Type: Career
GE: None

About the Program

Covers the practical considerations, challenges and rewards associated with starting and operating a small business. Explores how to identify small business opportunities, the factors influencing entrepreneurial success, financing, marketing, managing, record-keeping and computer applications to support small business operations.

This program is designed to teach students to design, launch and run new businesses or startup organizations. This requires students to solve problems, develop management strategies, make oral presentations, and write reports including business plans.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Assess business opportunities and determine their feasibility and potential using tools such as financial and competitive analysis.
- Conduct small business marketing research, using primary and secondary resources.
- Write a comprehensive business plan that provides an organized overview of the venture and identifies key business strategies and tactics.
- Define business terms and concepts, and effectively communicate using the language of business.

Required courses for the certificate:

BCIS 18	Introduction to Business Technology	3
BUS 25	Small Business Management	3
BUS 29	Supervising Employees	1
ACCT 128	Bookkeeping	2
or ACCT 20	Introduction to Accounting (3)	

Child Development and Family Relations (CDF)

AA-T Degree in Child and Adolescent Development
AS-T Degree in Early Childhood Education
AS Degree in Child Development
AS Degree in Early Childhood Education
Certificate of Achievement in Early Childhood Education
Certificate in Child and Family Studies
Certificate in Early Childhood Education

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Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Child and Adolescent Development

60 Units Minimum

Program Code: 35197.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

This program teaches students to embrace a practitioner-scholar model that inspires and supports the development of knowledge, skills and dispositions essential to fostering healthy growth and learning of children and families in a diverse society, including leadership and advocacy, for children up to age eighteen.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Synthesize research-based theories including principles and practices of child and adolescent development and learning.
- Utilize critical thinking skills to analyze, evaluate, and make decisions concerning complex contemporary issues and the interactions among individuals and across societies.
- Utilize scientific methodologies to research human development from infancy through adolescence.
- Exhibit the ability to use evidence based assessment systems and curriculum planning systems to support children's learning and development.
- Knowledge of development in all learning domains from conception through adolescent, including knowledge about typical and atypical development.
- Demonstrates the ability to promote developmentally, culturally and linguistically appropriate strategies to address diverse approaches to learning.

Required courses for the major: **19 - 20 Units**

Required Core:			
CDF 14	Child Growth and Development		3
PSY 1	Principles of Psychology		3
MATH 18	Introduction to Statistics	(P)	4
List A: Select three courses from at least 2 groups			
Group 1			
ANTH 4	Cultural Anthropology		3
SOC 2	Principles of Sociology		3
SOC 20	Introduction to Race and Ethnicity		3
CDF 12	Child, Family, and Community		3
SOC 8	Introduction to Marriage, Family and Intimate Relationships		3
Group 2			
PSY 15	Lifespan Psychology		3
Group 3			
BIOL 1	Introduction to Biology		4
Group 4			
CDF 40	Observation and Assessment	(P)	3
CDF 63	Introduction to Early Childhood Education Curriculum	(P)	3

AS-T Degree in Early Childhood Education

60 Units Minimum

Program Code: 31941.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

This degree is intended for students who plan to complete a Bachelor's Degree in Child Development or Early Childhood Education at a California State University (CSU). Students who complete this degree will achieve competency in promoting child development and learning, building family and community relationships, implementing developmentally appropriate curricula while learning about child assessment systems, teaching in a diverse society, and becoming a lifelong learner.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Synthesize research-based theories including principles and practices of child development and learning.
- Incorporate strategies for building respectful, reciprocal family and community relationships in order to engage society in the development and learning of children.
- Exhibit the ability to use an assessment system encompassing a variety of strategies that provide information about program effectiveness and children's development, learning, interests, strengths and needs.
- Apply principles of child development and positive guidance for planning inclusive, culturally relevant and appropriate curriculum and learning environments while integrating all developmental domains.
- Identify and conduct themselves as Early Childhood professionals and commit to using the National Association for the Education of Young Children Code of Ethical Conduct and other professional standards while engaging in reflective practices as collaborative learners.

Required courses for the major: **24 Units**

Required Core:			
CDF 14	Child Growth and Development		3
CDF 12	Child, Family, and Community		3
CDF 48	Principles and Practices of Teaching Young Children		3
CDF 63	Introduction to Early Childhood Education Curriculum	(P)	3
CDF 40	Observation and Assessment	(P)	3
CDF 78	Early Childhood Education Practicum	(P)	3
CDF 80	Health, Safety and Nutrition		3
CDF 57	Teaching in a Diverse Society		3

AS Degree in Child Development

60 Units Minimum

Program Code: 16226.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Students who seek a career working with children, families and communities should enroll in this program of study, which emphasizes the integration of theory, research, and practice from multiple disciplines. It is a unique blend of family studies, community services, early and elementary education, parenting and child nutrition, with a focus on birth through adolescence.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Synthesize research-based theories including principles and practices of child development and learning.
- Incorporate strategies for building respectful, reciprocal family and community relationships in order to engage society in the development and learning of children.
- Exhibit the ability to use an assessment system encompassing a variety of strategies that provide information about program effectiveness and children's development, learning, interests, strengths and needs.
- Apply principles of child development and positive guidance for planning inclusive, culturally relevant and appropriate curriculum and learning environments while integrating all developmental domains.
- Identify and conduct themselves as Early Childhood professionals and commit to using the National Association for the Education of Young Children Code of Ethical Conduct and other professional standards while engaging in reflective practices as collaborative learners.

Required courses for the major:			**18 - 19 Units**
FN 2	Nutrition		3
or FN 50	Nutrition and Diet Therapy (4)		
CDF 14	Child Growth and Development		3
CDF 40	Observation and Assessment	(P)	3
CDF 63	Introduction to Early Childhood Education Curriculum	(P)	3
SOC 8	Introduction to Marriage, Family and Intimate Relationships		3
PSY 41	Socio-Cultural Context of Psychological Development		3

AS Degree in Early Childhood Education

60 Units Minimum

Program Code: 01349.00AS
Type: Career
GE: Butte Local

About the Program

The field of early care and education is a dynamic and growing area of study for students who seek to work with young children up to age eight. Students who earn an AS degree in Early Childhood Education will play a pivotal role in the lives of children, families and their local community. All students who complete this degree will achieve competency in promoting child development and learning, building family and community relationships, implementing developmentally appropriate curricula while learning about child assessment systems, teaching in a diverse society, and becoming lifelong learners.

Career opportunities in the early childhood education and child development fields are many and varied. Programs for infants, toddlers, preschoolers, and school-aged children and their parents continue to increase in number. Potential careers include: early childhood teacher/administrator, child care provider, playground program specialist, social worker, consultant, play therapist/activity specialist or teacher for hospitalized children, elementary school teacher, designer of children's products, legislative analyst/aide, and human services lobbyist. Opportunities are dependent upon the amount of education and experience acquired.

State of California Community Care Licensing requires that all teachers working with young children have a minimum of 12 semester units of coursework in Early Childhood Education. Six of the 12 units must include three units in Child Growth and Development (CDF 14) and three units in Child, Family and Community (CDF 12).

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Synthesize research-based theories including principles and practices of child development and learning.
- Incorporate strategies for building respectful, reciprocal family and community relationships in order to engage society in the development and learning of children.
- Exhibit the ability to use an assessment system encompassing a variety of strategies that provide information about program effectiveness and children's development, learning, interests, strengths and needs.
- Apply principles of child development and positive guidance for planning inclusive, culturally relevant and appropriate curriculum and learning environments while integrating all developmental domains.
- Identify and conduct themselves as Early Childhood professionals and commit to using the National Association for the Education of Young Children Code of Ethical Conduct and other professional standards while engaging in reflective practices as collaborative learners.

Required courses for the major:			**39 Units**
CDF 12	Child, Family, and Community		3
CDF 14	Child Growth and Development		3
CDF 18	Children with Special Needs		3
CDF 40	Observation and Assessment	(P)	3
CDF 44	Positive Child Guidance		3
CDF 48	Principles and Practices of Teaching Young Children		3
CDF 56	Prenatal, Infant, and Toddler Development		3
CDF 57	Teaching in a Diverse Society		3
CDF 63	Introduction to Early Childhood Education Curriculum	(P)	3
CDF 78	Early Childhood Education Practicum	(P)	3
CDF 80	Health, Safety and Nutrition		3
Electives - Select 6 units from the following:			6
CDF 20	Curriculum for Children with Special Needs (3)		
CDF 30	Adult Supervision and Mentoring in Early Care and Education (2)		
CDF 59	Anti-Bias Curriculum in Early Childhood Programs (3)		
CDF 65	Infant/Toddler Curriculum (3)		
CDF 84	Administration I: Programs in Early Childhood Education (3)		
CDF 85	Admin II: Personnel & Leadership in Early Childhood Education (3)		
CDF 91	Parenting in Today's Society (3)		
CDF 99	Work Experience-CDF (3)	(P)	
CDF 93	Strengthening Families (3)		

Certificate of Achievement in Early Childhood Education

24 Units

Program Code: 01349.00CA
Type: Career
GE: None

About the Program

Students who earn this certificate will meet the requirements for the teacher level of the California Child Development Permit and become competent and effective lead teachers and caregivers of young children up to age five. Additional work experience and general education coursework is required to qualify for a state permit.

Gainful Employment Information
Certificate of Achievement in Early Childhood Education:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Synthesize research-based theories including principles and practices of child development and learning.
- Incorporate strategies for building respectful, reciprocal family and community relationships in order to engage society in the development and learning of children.
- Exhibit the ability to use an assessment system encompassing a variety of strategies that provide information about program effectiveness and children's development, learning, interests, strengths and needs.
- Apply principles of child development and positive guidance for planning inclusive, culturally relevant and appropriate curriculum and learning environments while integrating all developmental domains.
- Identify and conduct themselves as Early Childhood professionals and commit to using the National Association for the Education of Young Children Code of Ethical Conduct and other professional standards while engaging in reflective practices as collaborative learners.

Required courses for the certificate:

CDF 12	Child, Family, and Community		3
CDF 14	Child Growth and Development		3
CDF 18	Children with Special Needs		3
CDF 40	Observation and Assessment	(P)	3
CDF 44	Positive Child Guidance		3
CDF 56	Prenatal, Infant, and Toddler Development		3
CDF 57	Teaching in a Diverse Society		3
CDF 63	Introduction to Early Childhood Education Curriculum	(P)	3

Certificate in Child and Family Studies

15 Units

Program Code: CHILDFAMSTUDIES.CC
Type: Career
GE: None

About the Program

Students who earn a certificate in Child and Family studies develop skills that are valued by employers. Certificate holders may begin careers as assistant health educators, early intervention/special education assistants, family service workers, family advocates, family support specialists, home visitors, parent educators/ trainers, social services caseworkers, strengthening families trainers, youth workers and other services providers for community agencies that serve children, families, and communities.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the development, roles, and interaction patterns of children, youth, and families within their social systems;
- Identify dimensions of diversity in children, youth, and families and recognize oppressive forces that hinder their positive development;
- Describe the foundational health and nutritional needs of children 0-8 years of age;
- Demonstrate professional standards of ethical conduct working with families;
- Assume the role of change agents regarding issues, policies, & community needs that affect children, youth, and their families and;
- Identify current trends and issues in parenting the child.

Required courses for the certificate:

CDF 12	Child, Family, and Community	3
CDF 14	Child Growth and Development	3
CDF 91	Parenting in Today's Society	3
CDF 93	Strengthening Families	3
FN 8	Maternal and Child Nutrition	3

Certificate in Early Childhood Education

12 Units

Program Code: EARLYCHILDEDUC.CC
Type: Career
GE: None

About the Program

Students who earn this certificate will meet the requirements for Teacher level of the California Child Development Permit and become capable and competent teachers of children up to age five. This certificate also complies with Title XXII regulations for employment in community care-licensed programs. Certification requires the completion of a minimum of six units completed at Butte College and a grade of "C" or better in each course. The coursework for this certificate is also available in Spanish.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and conduct themselves as Early Childhood professionals and commit to using the National Association for the Education of Young Children Code of Ethical Conduct and other professional standards while engaging in reflective practices as collaborative learners

Required courses for the certificate:

CDF 12	Child, Family, and Community		3
CDF 14	Child Growth and Development		3
Electives - Select 6 Units from the following:			6
CDF 18	Children with Special Needs (3)		
CDF 40	Observation and Assessment (3)	(P)	
CDF 44	Positive Child Guidance (3)		
CDF 48	Principles and Practices of Teaching Young Children (3)		
CDF 56	Prenatal, Infant, and Toddler Development (3)		
CDF 57	Teaching in a Diverse Society (3)		
CDF 63	Introduction to Early Childhood Education Curriculum (3)	(P)	
CDF 65	Infant/Toddler Curriculum (3)		
CDF 80	Health, Safety and Nutrition (3)		

Chemistry (CHEM)

AS Degree in Chemistry

Jason Trento, Chair (530) 879-4305
Department Office: TE 132, (530) 879-6106
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Chemistry

60 Units Minimum

Program Code: 01358.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Chemistry is the study of the properties, composition, and transformations of all material substances. It supports and draws from biology, earth science, engineering, mathematics, medicine and physics. Because Chemistry can help you to understand these other fields and "how things work" in general, it can be a very fascinating and rewarding subject to study. The Chemistry AS degree is appropriate for students planning to transfer to a university to major in chemistry or other closely related fields. A different set of courses is offered for students in other majors such as agriculture or allied health science including nursing, dental hygiene, physical therapy, or nutrition.

Medical personnel, technicians, engineers, and scientists identify and solve problems by applying logic, scientific thinking, and knowledge of natural laws. The study of chemistry is well suited to developing these skills, and many opportunities are available to those who have studied chemistry. Chemistry majors are employed in many fields, including agronomy, biotechnology, energy production, environmental science, material science, medicine, patent law and teaching. Note, however, that most careers associated with chemistry require a degree beyond the AS degree.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate basic experimental knowledge through data gathering, judging the accuracy and reliability of data, creating informative graphs, and discussing the limitations of experimental designs.
- Demonstrate basic analytical skills by interpreting graphs and schematics and diagnosing realistic physical problems.
- Demonstrate conceptual understanding by being able to describe qualitatively the underlying causes of basic physical phenomena.

Required courses for the major:			40 Units
CHEM 1	General Chemistry I	(P)	5
CHEM 2	General Chemistry II	(P)	5
CHEM 21	Organic Chemistry I	(P)	5
MATH 30	Analytic Geometry and Calculus I	(P)	5
MATH 31	Analytic Geometry and Calculus II	(P)	4
MATH 32	Analytic Geometry and Calculus III	(P)	4
PHYS 41	Physics for Scientists and Engineers I	(P)	4
PHYS 42	Physics for Scientists and Engineers II	(P)	4
PHYS 43	Physics for Scientists and Engineers III	(P)	4

Communication Studies (CMST)

AA-T Degree in Communication Studies
AA Degree in Communication Studies

Laura Rapozo-Davis, Chair (530) 879-4341
Department Office: ARTS 224, (530) 895-2994
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Communication Studies — 60 Units Minimum

Program Code: 30997.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate communication skills to connect, work, and play well with others.
- Communicate ethically.
- Research, organize, and create messages using appropriate resources.
- Effectively present formal and informal communication adapted to a variety of audiences and contexts.
- Demonstrate critical thinking.

Required courses for the major:			18 Units
Required Core:			
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
List A: Select two			
CMST 4	Small Group Communication		3
CMST 10	Interpersonal Communication		3
CMST 14	Argumentation and Debate	(P)	3
List B: Select two			
Any List A course not used above			
CMST 6	Oral Interpretation		3
CMST 9	Intercultural Communication		3
CMST 12	Forensics (Speech and Debate)		3
RTVF 12	Mass Media and Society		3
List C: Select one			
Any List A or List B course not used above			
CMST 13	Gender and Communication		3
JOUR 2	Introduction to Reporting and Newswriting		3

AA Degree in Communication Studies — 60 Units Minimum

Program Code: 19042.00AA
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for Communication Studies at CSU, Chico. Visit website for details www.assist.org

This program offers vital communication skills that are in demand by virtually every company and most organizations. Students with a degree in Communication Studies are prepared to succeed in numerous professions; in fact, many studies cite "effective communication" as the number one skill in demand in today's workplace. Students majoring in Communication Studies explore communication theories and skills needed in our complex world. These include: oral and written communication, critical thinking, interpersonal communication, gender and communication, intercultural awareness and sensitivity, and effective group interaction, among others.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate communication skills to connect, work and play well with others.
- Communicate ethically.
- Research, organize, and create messages using appropriate resources.
- Effectively present formal and informal communication adapted to a variety of audiences and contexts.
- Demonstrate critical thinking.

Required courses for the major:			18 Units
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
CMST 4	Small Group Communication		3
CMST 9	Intercultural Communication		3
CMST 10	Interpersonal Communication		3
CMST 12	Forensics (Speech and Debate)		3
CMST 14	Argumentation and Debate	(P)	3

Construction (CNST)

AS Degree in Construction Management
Certificate of Achievement in Applied Construction
Certificate of Achievement in Construction Management
Certificate in Applied Concrete Construction
Certificate in Applied Framing Construction

Tom Williams, Chair (530) 895-2496
Department Office: AHPS 251, (530)895-2551
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Construction Management

60 Units Minimum

Program Code: 38057.00AS
Type: Career
GE: Butte Local, CSU

About the Program

The Associate of Science Degree in Construction Management prepares students to transfer into a bachelor's degree program in the junior year of a 4 year program. With the completion of this degree, students will possess fundamental knowledge and skills required in the field of construction management which include planning, coordinating, budgeting and supervising construction projects from start to finish in a growing nationwide field. Our neighboring 4-year institution (CSU Chico) has a thriving and mature Construction Management program that we have modeled our curriculum on to optimize the transferability of credits.

Career Opportunities

The nationwide market for construction is in desperate need of skilled labor over the spectrum of construction roles required in a diverse and thriving economy (Construction and Construction Management is one of the most rapidly growing labor markets in the US). Recently, our more immediate area was struck by the Camp Wildfire which destroyed over 15,000 structures. In the next decade and beyond, our local industry partners anticipate significant additional need for skilled labor as we recover from this unprecedented event.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and describe the different subfields within the construction industry and how they relate to each other.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and construction applications.
- Apply physical science techniques to understand the fundamental properties of mechanical and electrical systems.
- Manage and maintain the mechanical and electrical systems used in construction projects.
- Employ accounting principles as they relate to construction planning and business maintenance.

Required courses for the major: **41 Units**

CNST 1	Introduction to Construction	(P/C)	2
CNST 15	Materials and Methods of Construction	(P/C)	3
CNST 45	Construction Graphics	(P)	3
CNST 21	Analysis of Construction Drawings and Specifications	(P/C)	3
CNST 35	Electrical and Mechanical Systems	(P/C)	3
CHEM 51	Elementary Inorganic Chemistry	(P)	5
ECON 2	Principles of Macroeconomics	(P)	3
ECON 4	Principles of Microeconomics	(P)	3
ACCT 2	Financial Accounting		4
ACCT 4	Managerial Accounting	(P)	4
PHYS 21	College Physics I	(P)	4
MATH 13	Survey of Calculus	(P)	4

Certificate of Achievement in Applied Construction

29 Units

Program Code: 37967.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in Applied Construction is designed to prepare students to meet entry-level requirements for skilled jobs in the construction industry covering a broad range of skills from foundation to finish.

Gainful Employment Information
Certificate of Achievement in Applied Construction:
http://www.butte.edu/academicprograms/

Career Opportunities

Recently, our area was struck by the Camp Wildfire which destroyed over 15,000 structures. In the next decade and beyond, our local industry partners anticipate significant additional need for skilled labor as we recover from this unprecedented event.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice industry standards for safety used in construction environments.
- Interpret technical drawings and schematics for use in construction applications.
- Employ the techniques and materials used in common construction projects.
- Demonstrate the techniques used in foundation and wall layout.
- Manage and maintain the mechanical and electrical systems used in construction projects.
- Demonstrate the proper technique employed in the operation of various hand and power tools.

Required courses for the certificate:

CNST 1	Introduction to Construction	(P/C)	2
CNST 15	Materials and Methods of Construction	(P/C)	3
CNST 35	Electrical and Mechanical Systems	(P/C)	3
CNST 5	Plans, Specifications, & Surveying	(P/C)	3
CNST 10	Properties and Applications of Concrete	(P/C)	4
CNST 20	Foundations and Concrete Structures	(P/C)	3
CNST 25	Construction Framing	(P/C)	4
CNST 30	Interior and Exterior Finishes	(P/C)	4
CNST 40	Construction Cost Estimating I	(P/C)	3

Certificate of Achievement in Construction Management

41 Units

Program Code: 37944.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in Construction Management represents the core non-GE requirements of the AS degree in Construction Management. If students chose to transfer to a 4-year program in Construction Management without completing the GE requirements, possession of this certificate provides the student with an accurate summary of the program completed. With the completion of this certificate, students will possess fundamental knowledge

and skills in construction managers plan, coordinate, budget and supervise construction projects from start to finish in a growing nationwide field. Our neighboring 4 year institution (CSU Chico) has a thriving and mature Construction Management program that we have modeled our curriculum on to ensure clean transfer of all units completed in this program.

Gainful Employment Information
Certificate of Achievement in Construction Management:
http://www.butte.edu/academicprograms/

Career Opportunities

The nationwide market for construction is in desperate need of skilled labor over the spectrum of construction roles required in a diverse and thriving economy (Construction and Construction Management is one of the most rapidly growing labor markets in the US). Recently, our more immediate area was struck by the Camp Wildfire which destroyed over 15,000 structures. In the next decade and beyond, our local industry partners anticipate significant additional need for skilled labor as we recover from this unprecedented event.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and describe the different sub fields within the construction industry and how they relate to each other.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and construction applications.
- Apply physical science techniques to understand the fundamental properties of mechanical and electrical systems.
- Manage and maintain the mechanical and electrical systems used in construction projects.
- Employ accounting principles as they relate to construction planning and business maintenance.

Required courses for the certificate:

CNST 1	Introduction to Construction	(P/C)	2
CNST 15	Materials and Methods of Construction	(P/C)	3
CNST 45	Construction Graphics	(P)	3
CNST 21	Analysis of Construction Drawings and Specifications	(P/C)	3
CNST 35	Electrical and Mechanical Systems	(P/C)	3
CHEM 51	Elementary Inorganic Chemistry	(P)	5
ECON 2	Principles of Macroeconomics	(P)	3
ECON 4	Principles of Microeconomics	(P)	3
ACCT 2	Financial Accounting		4
ACCT 4	Managerial Accounting	(P)	4
PHYS 21	College Physics I	(P)	4
MATH 13	Survey of Calculus	(P)	4

Certificate in Applied Concrete Construction — 15 Units

Program Code: APPCONCRETECNST.CC
Type: Career
GE: None

About the Program

The student earning this certificate will have the skills and abilities to enter the concrete construction industry understanding and demonstrating the principles, procedures, and skills of the trade.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate the process of forming and placing concrete.
- Identify the safety hazards associated with concrete and concrete activities.
- Identify the different types of forming systems and understand the correct application.

Required courses for the certificate:

CNST 1	Introduction to Construction	(P/C)	2
CNST 5	Plans, Specifications, & Surveying	(P/C)	3
CNST 10	Properties and Applications of Concrete	(P/C)	4
CNST 15	Materials and Methods of Construction	(P/C)	3
CNST 20	Foundations and Concrete Structures	(P/C)	3

Certificate in Applied Framing Construction — 16 Units

Program Code: APPFRAMECNST.CC
Type: Career
GE: None

About the Program

The student earning this certificate will have the skills and abilities to enter the framing construction industry understanding and demonstrating the principles, procedures, and skills of the trade.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the advantages and disadvantages of specific materials in certain applications.
- Identify the safety hazards associated with framing activities and tools.
- Demonstrate fundamental framing layout.

Required courses for the certificate:

CNST 1	Introduction to Construction	(P/C)	2
CNST 5	Plans, Specifications, & Surveying	(P/C)	3
CNST 15	Materials and Methods of Construction	(P/C)	3
CNST 25	Construction Framing	(P/C)	4
CNST 30	Interior and Exterior Finishes	(P/C)	4

Cosmetology (COS)

AS Degree in Cosmetology
Certificate of Achievement in Cosmetology
Certificate in Cosmetology to Barbering Crossover
Certificate in Esthetician
Certificate in Manicuring

Eileen Ross, Manager (530) 895-2202
Department Office: Cosmetology and Barbering,
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Cosmetology — 60 Units Minimum

Program Code: 01370.00AS
Type: Career
GE: Butte Local

About the Program

Cosmetology is a 1,600 hour course of study designed to meet the State of California Cosmetology Act. Butte College offers 1,680 hours of study in a seven-module sequence of courses, with each module six weeks in duration. By meeting required academic and attendance standards, each six-week module will result in 5 semester units of college credit.

The 7 six-week modules can be completed in approximately eleven months. Successful completion will enable the student to meet the 1,600 hour state licensing requirement and will result in a total of 35 units of college credit.

A Certificate of Achievement can be earned by completing the seven-module, 1,600-hour COS 100-106 program. No other General Education, competency, or district requirements need be completed for the certificate.

We also offers training programs for manicuring and skin care (esthetician).

In order to obtain a Cosmetologist License and practice Cosmetology in the State of California, students must be 17 years of age or older, have a high school diploma or GED, successfully complete the 1,600 course of study and pass the state examination (written and practical). Tests are administered through the Department of Consumer Affairs Bureau of Barbering and Cosmetology.

To enroll in this program, potential students should contact the Butte College Cosmetology and Barbering School at (530) 895-2022.

Job opportunities for licensed cosmetologists include working for chain and independent beauty salons and spas (large and small), salons and spas on luxury ships, department store salons and cosmetic departments, beauty supply stores, retail and wholesale selling, manufacturer's representatives, research and development, salon managers, owners and educators.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Safely and accurately use all equipment and products relating to the industry.
- Demonstrate the most current methods and procedures using professional tools and equipment.
- Apply necessary health and safety rules.
- Demonstrate appropriate communication skills.
- Demonstrate an orderly performance of all tasks and skills, establishing methodical habits without sacrificing artistic skills.

Required courses for the major: — **35 Units**

COS 100	Introduction to Cosmetology	(P)	5
COS 101	Cosmetology I	(P)	5
COS 102	Cosmetology II	(P)	5
COS 103	Cosmetology III	(P)	5
COS 104	Cosmetology IV	(P)	5
COS 105	Cosmetology V	(P)	5
COS 106	Cosmetology VI	(P)	5

Certificate of Achievement in Cosmetology — 35 Units

Program Code: 01370.00CA
Type: Career
GE: None

About the Program

See AS Degree in Cosmetology

Gainful Employment Information
Certificate of Achievement in Cosmetology:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Safely and accurately use all equipment and products relating to the industry.
- Demonstrate the most current methods and procedures using professional tools and equipment.
- Apply necessary health and safety rules.
- Demonstrate appropriate communication skills.
- Demonstrate an orderly performance of all tasks and skills, establishing methodical habits without sacrificing artistic skills.

Required courses for the certificate:

COS 100	Introduction to Cosmetology	(P)	5
COS 101	Cosmetology I	(P)	5
COS 102	Cosmetology II	(P)	5
COS 103	Cosmetology III	(P)	5
COS 104	Cosmetology IV	(P)	5
COS 105	Cosmetology V	(P)	5
COS 106	Cosmetology VI	(P)	5

Certificate in Cosmetology to Barbering Crossover — 5 Units

Program Code: COSTOBARBERCROSS.CC
Type: Career
GE: None

About the Program

Students proficient in cosmetology are provided training in barbering and prepares the student for the California State Board Barber Examination. Students are introduced to the theory and advanced techniques of preparing the client's hair for shaving, assessing the condition of the client's skin, performing shaving techniques, applying after-shave antiseptic following facial services, massaging the client's face, Rolland cream massages. Students will spend 30 hours in a classroom setting and 210 hours in laboratory activities. Upon completing this course, students are expected to have a minimum of 1,800 hours of applied skill practice required by the State of California Board of Barbering and Cosmetology. Barbering services can only be performed by licensed California Barbers. The demand for these services is increasing with wait lists or loss of business due to Salon's only providing Cosmetology services or limited by staff holding a California Barbering license. Individuals who want to meet the requirements for barber licensure must first satisfy the education or apprenticeship requirement set forth by California's department of barbering/cosmetology. The EDD expects the number of California-based barbers to increase to even higher levels during the ten-year period ending in 2022 just to keep pace with growing demand. This growth level of 19.6% is 1.5 times higher than the national rate of increase. The

average salary for barbers in California was $25,397 in 2014 according to the state's Employment Development Division (EDD). California's barbers earning in the 75th percentile (top 25% percent) made $28,725 on average, which is nearly 1.5 times more than their colleagues in the 25th percentile (bottom 25%), who earned $19,302 on average.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate proper tool and equipment use and care.
- Perform standard cutting positions and strokes with a straight razor.
- Demonstrate a facial and neck shave.
- Discuss the art and science of men's hair cutting and styling.
- Discuss general sanitation and safety precautions of shaving.
- Perform straight razor-holding positions and cutting strokes.
- Demonstrate honing and strapping techniques.
- Discuss the evolution of barbering.
- Explain the difference between a standard shave, a once-over shave and a close shave from a standard shave.
- Explain the primary purpose of barber laws, rules and regulations.
- List the rules of professional ethics in barbering.
- List important characteristics used to determine a mustache design.
- Demonstrate and perform the following cutting techniques: fingers-and-shear, shear-over-comb, clipper cutting, clipper-over-comb, and razor cutting.

Required courses for the certificate:

COS 107	Cosmetology to Barbering Crossover	(P)	5

Certificate in Esthetician — 16 Units

Program Code: ESTHETICIAN.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Safely and accurately use all equipment and products relating to the industry.
- Demonstrate the most current methods and procedures using professional tools and equipment.
- Apply necessary health and safety rules.
- Demonstrate appropriate communication skills.
- Demonstrate an orderly performance of all tasks and skills, establishing methodical habits without sacrificing artistic skills.

Required courses for the certificate:

COS 109	Esthetician (Skin Care)	(P)	16

Certificate in Manicuring — 10 Units

Program Code: MANICURING.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Safely and accurately use all equipment and products relating to the industry.
- Demonstrate the most current methods and procedures using professional tools and equipment.
- Apply necessary health and safety rules.
- Demonstrate appropriate communication skills.
- Demonstrate an orderly performance of all tasks and skills, establishing methodical habits without sacrificing artistic skills.

Required courses for the certificate:

COS 108	Manicuring	(P)	10

Computer Science (CSCI)

AS-T Degree in Computer Science
AS Degree in Computer Animation and Game Development
AS Degree in Computer Information Systems
AS Degree in Computer Programming
AS Degree in Computer Science
AS Degree in Computer System Administration
Certificate of Achievement in Computer Programming
Certificate of Achievement in Computer System Administration
Certificate in Cisco Network Administration
Certificate in Computer Support Technician
Certificate in Microsoft Server Administration

Luke Sathrum, Chair (530) 895-2219
Department Office: AHPS 251, (530) 895-2531
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Computer Science

60 Units Minimum

Program Code: 31930.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the organizational structure of computer hardware and its connection to computer software.
- Describe how formal tools of symbolic logic are used to model real-life situations and relate the ideas of mathematical induction to recursion and recursively defined structures.
- Design, implement, test, and debug algorithms to solve a variety of problems.
- Design, implement, test, and debug computer programs using fundamental constructs and a variety of data structures.
- Apply structured and object-oriented approaches to the design and implementation of computer programs.

Required courses for the major:			29 Units
Required Core:			
CSCI 20	Programming and Algorithms I		3
CSCI 21	Programming and Algorithms II	(P)	3
CSCI 10	Computer Architecture and Organization	(P)	3
CSCI 22	Discrete Structures	(P)	3
MATH 30	Analytic Geometry and Calculus I	(P)	5
MATH 31	Analytic Geometry and Calculus II	(P)	4
PHYS 41	Physics for Scientists and Engineers I	(P)	4
PHYS 42	Physics for Scientists and Engineers II	(P)	4

AS Degree in Computer Animation and Game Development

60 Units Minimum

Program Code: 31284.02AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Students in Computer Animation and Game Development use art and technology to design and create multimedia environments that communicate, inform, and entertain. Computer Animation and Game Development provides a foundation for students who wish to pursue further studies in digital animation, video game design, 3-D modeling, texture art, concept art, special effects art, graphic art, storyboard art, and game programming. The program prepares students for transfer to the Computer Animation and Game Development program at California State University, Chico and for similar majors at other four-year colleges and universities.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and demonstrate the visualization techniques, ideation processes, and the tools and materials used to develop concepts for the video games and entertainment industries.
- List and describe the formal and dramatic elements that comprise a well-designed video game and conceptualize and refine an idea for a video game.
- Design and implement computer algorithms and applications using basic computation, input and output, control structures, and a variety of data structures in an object oriented programming language.
- Use a variety of artistic and technical techniques and tools to translate ideas into multimedia presentations.

Required courses for the major:			30 - 33 Units
Complete Core Plus One Option			
CSCI 11	Introduction to Game Design and Development		3
CSCI 20	Programming and Algorithms I		3
CSCI 21	Programming and Algorithms II	(P)	3
MSP 9	Concept Art and Design for Entertainment Media		3
MSP 45	3-D Computer Modeling and Animation		3
MSP 96	Introduction to Computer Graphics		3
DRAM 8	Principles of Acting I		3
Art Studio Option at CSU, Chico			
ART 2	Art History Survey I		3
or ART 2H	Honors Art History Survey I (3)		
ART 7	2-D Foundations		3
ART 8	Basic Drawing		3
ART 14	Basic Figure Drawing		3
Communication Design Option at CSU, Chico			
RTVF 30	Digital Audio Production		3
MSP 5	Introduction to Interactive Web Design and Authoring		3
MSP 74	Multimedia Production I		3

AS Degree in Computer Information Systems

60 Units Minimum

Program Code: 36241.00AS
Type: Local
GE: Butte Local, CSU or IGETC

About the Program

The transfer major listed here partially reflects requirements for the Bachelor of Science in Computer Information Systems at CSU, Chico. Students planning to transfer should contact a counselor for more information on program and transfer requirements.
Computer Information Systems (CIS) as a field focuses on practical applications of technology to support organizations. The program includes a range of subjects, including end-user Information Technology (IT) systems, IT systems analysis and design, software development, and mathematics. Potential careers for CIS graduates include IT consultant, programmer/analyst, application developer, Quality Assurance Specialist, IT support specialist, IT project manager, and many other roles in the IT industry.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Define terminology, concepts, and functions of end-user Information Technology (IT) systems.
- Explain how fundamental principles of economics and accounting systems are used to inform business decisions and satisfy the needs of specific businesses and users.
- Articulate the types of business needs that can be addressed using information technology-based solutions.
- Articulate business requirements for a technology solution, specify alternative approaches to acquiring the technology capabilities needed to address the business requirements, and specify the requirements for an information systems solution.
- Design and implement computer algorithms and applications using basic computation, input and output, control structures, and a variety of data structures in an object-oriented programming language
- Describe how formal tools of symbolic logic are used to model real-life situations, including those arising in computing contexts such as program correctness, database queries, and algorithms.

Required courses for the major:			**27 Units**
CSCI 49	PCs and Peripherals/A+		4
CSCI 23	Systems Analysis and Design	(P)	3
CSCI 20	Programming and Algorithms I		3
MATH 18	Introduction to Statistics	(P)	4
CSCI 21	Programming and Algorithms II	(P)	3
ECON 4	Principles of Microeconomics	(P)	3
MATH 13	Survey of Calculus	(P)	4
CSCI 22	Discrete Structures	(P)	3

AS Degree in Computer Programming

60 Units Minimum

Program Code: 31307.01AS
Type: Career
GE: Butte Local

About the Program

The Computer Programming program prepares students for entry-level positions as computer programmers and web developers. The core curriculum covers the software development life-cycle, algorithms, fundamental data structures, database design, and the design, implementation, and testing of computer programs and dynamic websites.No prerequisite skills are required for students to enroll in the program.

The program offers courses that prepare students for entry-level positions as computer programmers and web developers.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Design and implement basic software solutions using the building blocks of modern computer software systems.
- Identify, describe, and apply a variety of software engineering paradigms and process models in the development of computer software solutions.
- Design, implement, and test the functionality of relational databases.
- Design, implement, and test the functionality of computer software in a variety of computer programming languages.
- Design, implement, test, and maintain dynamic websites using client-side technologies, server-side technologies, and relational databases.

Required courses for the major:			**24 Units**
CSCI 4	Introduction to Programming Concepts and Methodologies		3
CSCI 20	Programming and Algorithms I		3
CSCI 21	Programming and Algorithms II	(P)	3
CSCI 25	Linux 1, Essentials		3
CSCI 31	Web Development I	(P)	3
CSCI 32	Web Development II	(P)	3
BUS 18	Database Design		4
CSCI 36	Programming Project	(P)	2

AS Degree in Computer Science

60 Units Minimum

Program Code: 11138.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the organizational structure of computer hardware and its connection to computer software.
- Apply the structured approach to computer software system design.
- Apply the object-oriented approach to computer software system design.
- Document program source code following established conventions and standards.

Required courses for the major:			**29 - 31 Units**
CSCI 10	Computer Architecture and Organization	(P)	3
CSCI 20	Programming and Algorithms I		3
CSCI 21	Programming and Algorithms II	(P)	3
CSCI 22	Discrete Structures	(P)	3
MATH 30	Analytic Geometry and Calculus I	(P)	5
MATH 31	Analytic Geometry and Calculus II	(P)	4
Select 2 courses from the following:			
CHEM 1	General Chemistry I	(P)	5
CHEM 2	General Chemistry II	(P)	5
CHEM 51	Elementary Inorganic Chemistry	(P)	5
CHEM 52	Elementary Organic and Biochemistry	(P)	4
PHYS 41	Physics for Scientists and Engineers I (4)	(P)	
PHYS 42	Physics for Scientists and Engineers II (4)	(P)	

AS Degree in Computer System Administration

60 Units Minimum

Program Code: 31306.01AS
Type: Career
GE: Butte Local

About the Program

The Computer System Administration program prepares students for industry standard certification exams and entry-level positions as computer support technicians and computer system administrators. The core curriculum covers Microsoft server installation, configuration, troubleshooting, and maintenance. No prerequisite skills are required for students to enroll in the program.

The program offers courses that prepare students for a variety of industry certification exams, including Microsoft MCSA, CompTIA A+, CompTIA Linux+, CompTIA Network+, and CompTIA Security+.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Design and implement basic software solutions using the building blocks of modern computer software systems.
- Apply the fundamental techniques of computer security to ensure account and data integrity.
- Identify labor market needs and properly prepare for the most relevant industry certification exams.
- Identify, describe, install, and maintain the fundamental hardware and software components of a modern computer system.
- Install, configure, maintain, and network Microsoft desktop computer workstations.
- Identify and describe connection-oriented network services and the functions of the Open Systems Interconnection (OSI) model.
- Design, build, configure, and maintain small to medium-sized Cisco networks utilizing switches, routers, and WAN connections.
- Implement a core Windows Server 2016 infrastructure in an existing enterprise environment.
- Implement, manage, maintain and provision services and infrastructure in a Windows Server 2016 environment.

Required courses for the major: **33 Units**

CSCI 4	Introduction to Programming Concepts and Methodologies		3
CSCI 17	Computer and Network Security/Security+	(P)	3
CSCI 25	Linux 1, Essentials		3
CSCI 49	PCs and Peripherals/A+		4
CSCI 48	Cisco Networks Level 1 and 2		4
CSCI 56	Cisco Networks Level 3 & 4, Scaling and Connecting	(P)	3
CSCI 65	Microsoft SQL Database Administration	(P)	3
BCIS 33	Skills for the Working Professional		1
CSCI 73	Server 2016 Installation, Storage, and Compute		3
CSCI 74	Networking with Windows Server 2016	(P)	3
CSCI 75	Identity with Windows Server 2016	(P)	3

Certificate of Achievement in Computer Programming

24 Units

Program Code: 31246.01CA
Type: Career
GE: None

About the Program

See AS Degree in Computer Programming

Gainful Employment Information
Certificate of Achievement in Computer Programming:
www.butte.edu/curriculum/gainful-employment/3124601CA.html

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Design and implement basic software solutions using the building blocks of modern computer software systems.
- Identify, describe, and apply a variety of software engineering paradigms and process models in the development of computer software solutions.
- Design, implement, and test the functionality of relational databases.
- Design, implement, and test the functionality of computer software in a variety of computer programming languages.
- Design, implement, test, and maintain dynamic websites using client-side technologies, server-side technologies, and relational databases.

Required courses for the certificate:

CSCI 4	Introduction to Programming Concepts and Methodologies		3
CSCI 20	Programming and Algorithms I		3
CSCI 21	Programming and Algorithms II	(P)	3
CSCI 25	Linux 1, Essentials		3
CSCI 31	Web Development I	(P)	3
CSCI 32	Web Development II	(P)	3
BUS 18	Database Design		4
CSCI 36	Programming Project	(P)	2

Certificate of Achievement in Computer System Administration

33 Units

Program Code: 31236.01CA
Type: Career
GE: None

About the Program

See AS Degree in Computer Systems Administration

Gainful Employment Information
Certificate of Achievement in Computer System Administration:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Design and implement basic software solutions using the building blocks of modern computer software systems.
- Apply the fundamental techniques of computer security to ensure account and data integrity.
- Identify labor market needs and properly prepare for the most relevant industry certification exams.
- Identify, describe, install, and maintain the fundamental hardware and software components of a modern computer system.
- Install, configure, maintain, and network Microsoft desktop computer workstations.
- Identify and describe connection-oriented network services and the functions of the Open Systems Interconnection (OSI) model.
- Design, build, configure, and maintain small to medium-sized Cisco networks utilizing switches, routers, and WAN connections.
- Implement a core Windows Server 2016 infrastructure in an existing enterprise environment.
- Implement, manage, maintain and provision services and infrastructure in a Windows Server 2016 environment.

Required courses for the certificate:

CSCI 4	Introduction to Programming Concepts and Methodologies		3
CSCI 17	Computer and Network Security/Security+	(P)	3
CSCI 25	Linux 1, Essentials		3
CSCI 49	PCs and Peripherals/A+		4
CSCI 48	Cisco Networks Level 1 and 2		4
CSCI 56	Cisco Networks Level 3 & 4, Scaling and Connecting	(P)	3

CSCI 65	Microsoft SQL Database Administration	(P)	3
BCIS 33	Skills for the Working Professional		1
CSCI 73	Server 2016 Installation, Storage, and Compute		3
CSCI 74	Networking with Windows Server 2016	(P)	3
CSCI 75	Identity with Windows Server 2016	(P)	3

Certificate in Cisco Network Administration

11 Units

Program Code: CISCONETWORK.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and describe connection-oriented network services and the functions of the Open Systems Interconnection (OSI) model.
- Design, build, configure, and maintain small to medium-sized computer networks utilizing switches, routers, and WAN connections.
- Identify labor market needs and properly prepare for the most relevant industry certification exams.

Required courses for the certificate:

CSCI 48	Cisco Networks Level 1 and 2		4
CSCI 56	Cisco Networks Level 3 & 4, Scaling and Connecting	(P)	3
CSCI 49	PCs and Peripherals/A+		4

Certificate in Computer Support Technician

10 Units

Program Code: COMPUTERSUPPTECH.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify, describe, install, and maintain the fundamental hardware and software components of a modern computer system.
- Apply the fundamental techniques of computer security to ensure account and data integrity.
- Identify and describe connection-oriented network services and the functions of the Open Systems Interconnection (OSI) model.
- Identify labor market needs and properly prepare for the most relevant industry certification exams.

Required courses for the certificate:

CSCI 17	Computer and Network Security/Security+	(P)	3
CSCI 49	PCs and Peripherals/A+		4
CSCI 19	Computer Networking Fundamentals		3

Certificate in Microsoft Server Administration

9 Units

Program Code: MICROSOFTSERVER.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Implement a core Windows Server 2016 infrastructure in an existing enterprise environment.
- Implement, manage, maintain and provision services and infrastructure in a Windows Server 2016 environment.
- Identify labor market needs and properly prepare for the most relevant industry certification exams.

Required courses for the certificate:

CSCI 73	Server 2016 Installation, Storage, and Compute		3
CSCI 74	Networking with Windows Server 2016	(P)	3
CSCI 75	Identity with Windows Server 2016	(P)	3

Drafting (DFT)

AS Degree in Drafting and CAD Technology
Certificate of Achievement in Drafting and CAD Technology
Certificate in 3D Mechanical Applications
Certificate in Architectural Drafting and Modeling

Luke Sathrum, Chair (530) 895-2219
Department Office: AHPS 251, (530) 895-2531
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Drafting and CAD Technology — 60 Units Minimum

Program Code: 01324.00AS
Type: Career
GE: Butte Local

About the Program

The Drafting and CAD Technology program is designed to prepare students to meet the drafting requirements of industry. The diversity of the program allows students to pursue a career with a variety of companies that employ drafters. The program can be arranged to earn either a Certificate of Achievement or an AS degree.

In CAD and solids modeling, students will discover real-world connections for their interests in math and science, and through hands-on activities improve their skills and become more confident. A year or more of high school drafting is very beneficial. Students need to be neat, methodical, and have an aptitude for spatial thinking. Students who are still enrolled in high school and who are considering a career as a drafter are encouraged to take courses in trigonometry, physical science, and computer science.

Students who complete this program will be able to prepare drawings for individuals and companies in the architectural, civil engineering, construction, and manufacturing technology fields. Students will gain extensive experience using computer aided drafting (CAD) techniques. Students will also have experience reading construction drawings and interpreting specifications.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the role of technical graphics in the engineering design process.
- Produce dimensioned technical drawings using various techniques including computer-aided drafting (CAD), 3D modeling, and freehand sketching.
- Read and interpret the information provided by technical drawings in architectural, engineering, construction, and manufacturing applications.
- Produce a comprehensive project, 3D model, or set of drawings including specifications from a broad instruction set to an industry-based expectation for completeness and correctness.

Required courses for the major: **33 Units**

DFT 2	Engineering Graphics I		3
DFT 4	Print Reading for Construction and Architecture		3
or DFT 16	Print Reading For Industry and Manufacturing (3)		
DFT 8	Engineering Graphics II	(P)	3
DFT 12	Beginning AutoCAD Drafting		3
DFT 24	Architectural Drafting Applications		3
DFT 45	Building Information Modeling I		3
DFT 46	Building Information Modeling II - Advanced Applications	(P)	3
AET 26	Basic Surveying		3
or ENGR 3	Plane Surveying I (3)	(P)	
CSCI 2	Business and Computer Information Systems		3
MATH 20	Trigonometry	(P)	3
PSC 20	Introductory Physical Science		3

Certificate of Achievement in Drafting and CAD Technology — 21 Units

Program Code: 01324.00CA
Type: Career
GE: None

About the Program

See AS Degree in Drafting and CAD Technology

Gainful Employment Information
Certificate of Achievement in Drafting and CAD Technology:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the role of technical graphics in the engineering design process and in the architectural design process.
- Produce dimensioned technical drawings using various techniques including computer-aided drafting (CAD), 3D modeling, and freehand sketching.
- Read and interpret the information provided by technical drawings in architectural, engineering, construction, and manufacturing applications.
- Produce a project, architecture-based model from a given instruction set to an industry-based expectation for completeness and correctness.

Required courses for the certificate:

DFT 2	Engineering Graphics I		3
DFT 4	Print Reading for Construction and Architecture		3
DFT 12	Beginning AutoCAD Drafting		3
DFT 24	Architectural Drafting Applications		3
DFT 45	Building Information Modeling I		3
DFT 46	Building Information Modeling II - Advanced Applications	(P)	3
MATH 20	Trigonometry	(P)	3

Certificate in 3D Mechanical Applications — 9 Units

Program Code: 3DMECHAPPS.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Use a solid modeling application like Solid Works or Autodesk Inventor to develop parts, assemblies and output annotated drawings.
- Interpret and differentiate technical information provided on a manufacturing or fabrication print, including dimensions, tolerances, and specifications and other precision detail.
- Explain and demonstrate the use of added tools for 3D modeling including simulation, conversion from CAD (computer aided drafting) and specialty tools like sheet metal development, weldment development as well as animation and motion.

Required courses for the certificate:

DFT 2	Engineering Graphics I		3
DFT 8	Engineering Graphics II	(P)	3
DFT 16	Print Reading For Industry and Manufacturing		3

Certificate in Architectural Drafting and Modeling

12 Units

Program Code: ARCHDRAFTMODEL.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Read and interpret information provided by construction documents including: Plans, specifications, details and sections.
- Properly setup a CAD (computer-aided drafting) application like AutoCAD with drafting settings to create, edit, and save drawing files.
- Prepare a residential plan set with proper properties, layers, types and developments in model form with associated layouts for architectural applications.
- Identify, create and modify different types of building elements, views, and rendered views using a 3D modeling tool for architecture .

Required courses for the certificate:

DFT 4	Print Reading for Construction and Architecture	3
DFT 12	Beginning AutoCAD Drafting	3
DFT 24	Architectural Drafting Applications	3
DFT 45	Building Information Modeling I	3

Drama (DRAM)

AA-T Degree in Theatre Arts
Certificate in Theatre Arts

Daniel Donnelly, Chair (530) 895-2880
Department Office: ARTS 224, (530) 895-2994
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Theatre Arts — 60 Units Minimum

Program Code: 31850.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the historical evolution of theatre and identify a variety of theatrical disciplines, including playwright, actor, director, and technician.
- Discuss theatre arts from classic to contemporary, including the growth of drama within the context of the human condition.
- Use appropriately the terminology of acting and the theatre.
- Analyze scripts as they pertain to performances.
- Demonstrate proficiency in specific areas of technical expertise.
- Collaborate with others to create theatre productions.
- Apply standard practices of ensemble playing in both rehearsal and performance environments.
- Analyze dramatic literature and productions to identify form and period.

Required courses for the major: **18 Units**

Required Core:			
DRAM 2	Theatre Arts Appreciation		3
DRAM 8	Principles of Acting I		3
DRAM 11	Youth Outreach Theatre		3
or DRAM 12	Rehearsal & Performance (3)	(C)	
or DRAM 14	Theatre Production Workshop (3)		
List A: Select three			
DRAM 9	Principles of Acting II	(P)	3
DRAM 21	Introduction to Theatre Design		3
DRAM 22	Introduction to Stage Lighting		3
DRAM 15	Costume Construction I		3
Or if not used in Required Core:			
DRAM 11	Youth Outreach Theatre		3
or DRAM 12	Rehearsal & Performance (3)	(C)	
or DRAM 14	Theatre Production Workshop (3)		

Certificate in Theatre Arts — 15 Units

Program Code: THEATREARTS.CC
Type: Career
GE: None

About the Program

Through an intensive program of production work in the Butte College Drama Department, combined with courses throughout the college, the student will gain the theory and applied training work experience to find career choices in live theatre, film and other communication related fields. Upon completion of this certificate program, the student will be able to analyze texts and scripts as they pertain to performances, demonstrate the ability to complete assignments in his/her area of technical expertise, collaborate with others to produce a live stage performance, recognize standard practices of ensemble playing in a rehearsal/performance environment, analyze dramatic literature or productions to identify form and period.

The Certificate in Theatre Arts equips students with a multitude of skills applicable to many careers, not just those in the performing arts. The students earning a Certificate in Theatre Arts are prepared for a a host of job opportunities within and beyond the performing arts, including but not limited to: Actor, Director, Technician, Sales Representative, Customer Service Representative, Stage Crew, Carpenter, House Manager, Amusement Park Entertainer, Model, Tour Guide and Voice-Over Performer.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the historical evolution of theatre and identify a variety of theatrical disciplines, including playwright, actor, director, and technician.
- Use appropriately the terminology of acting and the theatre.
- Collaborate with others to create theatre productions.
- Apply standard practices of ensemble playing in both rehearsal and performance environments.

Required courses for the certificate:

DRAM 2	Theatre Arts Appreciation		3
DRAM 8	Principles of Acting I		3
DRAM 12	Rehearsal & Performance	(C)	3
DRAM 14	Theatre Production Workshop		3
Electives - Select 3 units from the following:			3
DRAM 4	Creative Drama and Theatre for Children (3)		
DRAM 9	Principles of Acting II (3)	(P)	
DRAM 15	Costume Construction I (3)		
DRAM 100	Introduction to Professional Theatre (1)		
MUS 30	Voice I (1)		
DRAM 18	Musical Comedy Workshop (3)	(P)	
KIN 40	Jazz Dance I (1.5)		
DRAM 19	Choreography for Performance (2)	(C)	

Economics (ECON)

AA-T Degree in Economics

LaRee Hartman, Chair (530) 895-2207
Department Office: BE 116, (530) 895-2371
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Economics

60 Units Minimum

Program Code: 33927.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Apply macro and microeconomic models to understand differing perspectives on how an economy as well as different industries operate.
- Analyze how economic policy changes will effect an economy and specific industry structures.
- Utilize economic data and specific economic coefficients to understand how markets operate efficiently.
- Analyze markets to determine when they operate efficiently and when they fail.

Required courses for the major:			**20 - 23 Units**
Required Core:			
ECON 2	Principles of Macroeconomics	(P)	3
ECON 4	Principles of Microeconomics	(P)	3
MATH 18	Introduction to Statistics	(P)	4
MATH 13	Survey of Calculus	(P)	4
or MATH 30	Analytic Geometry and Calculus I (5)	(P)	
List A: Select one			
MATH 12	Mathematics for Business Decisions (Finite Mathematics)	(P)	3
MATH 31	Analytic Geometry and Calculus II	(P)	4
ACCT 2	Financial Accounting		4
ACCT 4	Managerial Accounting	(P)	4
List B: Select one			
Any course from List A not already used			
ECON 20	Economic History of the U.S.		3
ECON 35	Introduction to Environmental Economics		3
MATH 32	Analytic Geometry and Calculus III	(P)	4
MATH 42	Linear Algebra	(P)	3

Education (EDUC)

AA-T Degree in Elementary Teacher Education
AA Degree in Liberal Studies
AA Degree in Liberal Studies: Bilingual Option
Certificate in Para Education

Terri Hutton, Chair (530) 895-2855
Department Office: AHPS 251, (530) 895-2542
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Elementary Teacher Education

60 Units Minimum

Program Code: 33563.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Students who seek to become teachers in primary, secondary, bilingual, or special education will find this to be an ideal educational program. This pathway focuses on building the knowledge, skills, and dispositions that prepare professionals to work with children grades TK to twelve. In this program, students will learn how to promote healthy development and learning in individually, culturally, and linguistically responsive ways, and will complete their first two years of a four-year degree.

Employment of elementary school teachers is projected to grow above 6% due to the projected increases in student enrollment and the increase of teacher's retirements. The median annual wage is around $54,550.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Evaluate and apply Transitional Kindergarten 12th grade state-adopted curriculum standards and frameworks, and teach to a diverse population of students.
- Design learning experiences based on an understanding of students' physical, cognitive, emotional, social, creative, cultural, and linguistic needs.
- Utilize observations and assessments to monitor student progress and create developmentally appropriate curriculum for instruction.
- Create and maintain an inclusive learning environment that supports all students academic and personal success.

Required courses for the major: **48 Units**

Required Core:

EDUC 2	Introduction to Education		3
CDF 14	Child Growth and Development		3
BIOL 1	Introduction to Biology		4
PSC 12	Concepts in Physical Science	(P)	4
PSC 11	Earth Science with Lab		4
MATH 4	Concepts in Mathematics for Teachers I	(P)	3
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	
ENGL 4	Introduction to Literature	(P)	3
GEOG 8	World Regional Geography		3
HIST 3	World History to 1500		3
HIST 8	United States History to 1877		3
POS 2	United States Government		3

List A: Select one

CMST 14	Argumentation and Debate	(P)	3
ENGL 11	Communication and Critical Thinking	(P)	3
MATH 7	Formal Logic and Writing	(P)	3
PHIL 6	Introduction To Logic		3
PHIL 8	Methods of Argument	(P)	3

List B: Select one

ART 1	Art Appreciation		3
MUS 1	Music Appreciation		3
DRAM 2	Theatre Arts Appreciation		3

AA Degree in Liberal Studies

60 Units Minimum

Program Code: 01372.00AA
Type: Local
GE: Butte Local, CSU or IGETC

About the Program

This program is the lower division pathway for students seeking transfer to CSU, Chico's BA in Liberal Studies. Students seeking to transfer to a different CSU, not CSU, Chico, should follow the AA-T Elementary Teacher Education pathway. The Liberal Studies pathway is an interdisciplinary majoring consisting of courses drawn from humanities, social sciences, mathematics, arts, language and sciences. Students in the program will receive a well-rounded education preparing them for careers as a elementary school teaching; however, the major is also appropriate for students who wish to have an interdisciplinary studies degree.
The Integrated Teacher Education Program (ITEP) is an accelerated pathway option that integrates the AA degree in Liberal Studies, the Bachelor's degree in Liberal Studies and a teacher credential in four years. This accelerated pathway is designed for individuals who already know they want to become a teacher. It requires concurrent enrollment in both CSU Chico courses while also attending Butte and may include summer course work. To learn more about the ITEP option speak with a counselor.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the concepts and issues related to teaching a diverse learners in today's contemporary schools including Transitional Kindergarten (TK) through grade eight.
- Describe the ways in which humanities, social sciences, mathematics, arts, language and sciences coursework will enhance oneâ€™s awareness, discover academic interests, and develop academic skills.
- Use scientific principles to explain well-established fundamental biological or physical phenomena and analyze their underlying components.
- Analyze and critically evaluate arguments and issues in terms of logical principles or other problem solving methodologies.
- Examine major physical, psychosocial, language and cognitive developmental milestones of the developing child.

Required courses for the major: **34 Units**

EDUC 2	Introduction to Education		3
BIOL 1	Introduction to Biology		4
CDF 14	Child Growth and Development		3
MATH 4	Concepts in Mathematics for Teachers I	(P)	3
MATH 5	Concepts in Mathematics for Teachers II	(P)	4
HIST 3	World History to 1500		3
PSC 11	Earth Science with Lab		4
PSC 12	Concepts in Physical Science	(P)	4
POS 2	United States Government		3
or POS 12	California State and Local Government (3)		

HIST 8	United States History to 1877	3
or HIST 10	United States History-1877 to Present (3)	
or HIST 26	Men and Women in American History (3)	
or ECON 20	Economic History of the U.S. (3)	

AA Degree in Liberal Studies: Bilingual Option

60 Units Minimum

Program Code: 11133.00AA
Type: Local
GE: Butte Local, CSU or IGETC

About the Program

This program is the lower division pathway for students seeking transfer to CSU, Chico's BA in Liberal Studies. Students seeking to transfer to a different CSU, not CSU, Chico, should follow the AA-T Elementary Teacher Education pathway. The Liberal Studies pathway is an interdisciplinary majoring consisting of courses drawn from humanities, social sciences, mathematics, arts, language and sciences. Students in the program will receive a well-rounded education preparing them for careers as a elementary school teaching with a bilingual option.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the concepts and issues related to teaching a diverse learners in today's contemporary schools including Transitional Kindergarten (TK) through grade eight.
- Describe the ways in which humanities, social sciences, mathematics, arts, language and sciences coursework will enhance oneâ€™s awareness, discover academic interests, and develop academic skills.
- Use scientific principles to explain well-established fundamental biological or physical phenomena and analyze their underlying components.
- Analyze and critically evaluate arguments and issues in terms of logical principles or other problem solving methodologies.
- Examine major physical, psychosocial, language and cognitive developmental milestones of the developing child.
- Describe the concepts and issues related to teaching a diverse learners in todayâ€™s contemporary schools including Transitional Kindergarten (TK) through grade eight.

Required courses for the major: **45 Units**

EDUC 2	Introduction to Education		3
BIOL 1	Introduction to Biology		4
CDF 14	Child Growth and Development		3
MATH 4	Concepts in Mathematics for Teachers I	(P)	3
MATH 5	Concepts in Mathematics for Teachers II	(P)	4
HIST 3	World History to 1500		3
PSC 11	Earth Science with Lab		4
PSC 12	Concepts in Physical Science	(P)	4
POS 2	United States Government		3
or POS 12	California State and Local Government (3)		
HIST 8	United States History to 1877		3
or HIST 10	United States History-1877 to Present (3)		
or HIST 26	Men and Women in American History (3)		
or ECON 20	Economic History of the U.S. (3)		
MCGS 36	Introduction to Chicano American Studies		3
SPAN 3	Third Semester Spanish	(P)	4
SPAN 4	Fourth Semester Spanish	(P)	4

Certificate in Para Education

12 Units

Program Code: PARAEDUC.CC
Type: Career
GE: None

About the Program

Students who earn this certificate in Para Education will develop skills that are valued by employers. Certificate holders may begin careers as Para Educator, Para Professional, Teacher Assistant, or Teacher Aid in the TK-12 schools.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- explain their role and responsibilities as a para educator
- increase their knowledge about typical and atypical developmental patterns in children
- provide instructional supports using individualized educational plans for diverse learners

Required courses for the certificate:

CDF 14	Child Growth and Development	3
EDUC 2	Introduction to Education	3
EDUC 4	Introduction to Para Education	3
EDUC 5	Working With School-Age Children	3

Environmental Horticulture (EH)

AS-T Degree in Agriculture Plant Science
AS Degree in Environmental Horticulture
Certificate of Achievement in Environmental Horticulture
Certificate of Achievement in Landscape/Turfgrass Technician
Certificate of Achievement in Nursery Technician
Certificate of Achievement in Plant Protection

Tip Wilmarth, Chair (530) 895-2540
Department Office: AHPS 251, (530) 895-2551
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Agriculture Plant Science — 60 Units Minimum

Program Code: 35061.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

During the next five years, U.S. college graduates will find good employment opportunities if they have expertise in food, agriculture, renewable natural resources, or the environment. An average of 35,400 new U.S. graduates with expertise in food, agriculture, renewable natural resources, or the environment are expected to fill 61% of the expected 57,900 average annual openings. Fewer graduates typically mean higher salaries, which start in the mid-$40k to $50k annually.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate basic experimental knowledge through data gathering and analysis to solve problems in the laboratory and in the field.
- Practice safe work habits in an employment setting, including handling and storage of hazardous materials, equipment operation, and tool safety.
- Demonstrate mastery of general plant science skills for technical employment in the plant science management industry (agronomy, pomology, viticulture or nursery).
- Apply the principles of ecology, soil science, and plant science to crop management problems. Develop integrated pest management programs for specific crops.

Required courses for the major:			22 - 24 Units
Required Core:			
AGS 50	General Soils		4
AGS 20	Plant Science		3
MATH 18	Introduction to Statistics	(P)	4
CHEM 51	Elementary Inorganic Chemistry	(P)	5
or CHEM 1	General Chemistry I (5)	(P)	
AB 22	Agricultural Economics		3
or ECON 4	Principles of Microeconomics (3)	(P)	
List A: Select one			
EH 70	Plant Propagation and Nursery Practices		3
AET 30	Tractors and Crawlers		3
EH 23	Fall Plant Identification		3
EH 24	Spring Plant Identification		3
CHEM 21	Organic Chemistry I	(P)	5

AS Degree in Environmental Horticulture — 60 Units Minimum

Program Code: 07258.00AS
Type: Career
GE: Butte Local

About the Program

The courses in environmental horticulture are designed to enable students to prepare for exciting careers in the essential and diverse horticulture profession or earn continuing education units (CEUs) for professional licenses. Career options include nursery and greenhouse management, retail garden centers, supply and equipment sales, commercial fruit and nut production, irrigation and landscape design, installation and maintenance, plant protection, interior landscaping, and ag education.

Students who complete this program can expect greater opportunities in salaries and enhances an individual's opportunity to advance into supervisory positions. A two- or four-year degree is a job requirement in some businesses and government agencies.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate competencies in irrigation design and construction.
- Identify turf species and their recommended management styles.
- Explain the principles of greenhouse glazing choices.

Required courses for the major:			40 Units
AB 20	Careers in Agriculture, Environmental Science and Natural Resources		1
AET 30	Tractors and Crawlers		3
EH 99	Work Experience-EH	(P)	2
AGS 50	General Soils		4
AGS 20	Plant Science		3
AGS 30	Ecology of Insect and Disease Management		3
or EH 60	Principles of Integrated Pest Management (3)		
or EH 61	Plant Protection Materials (3)		
or EH 62	Weed Science and Invasive Plants (3)		
EH 20	Introduction to Environmental Horticulture		3
EH 24	Spring Plant Identification		3
or EH 23	Fall Plant Identification (3)		
EH 26	Landscape Planning and Design		3
EH 28	Turfgrass Management and Equipment		3
EH 30	Irrigation Practices and Materials		3
EH 38	Greenhouse Production		3
or EH 70	Plant Propagation and Nursery Practices (3)		
EH 72	Landscape Business Management		3
EH 74	Irrigation System Design		3

Certificate of Achievement in Environmental Horticulture — 30 Units

Program Code: 07258.00CA
Type: Career
GE: None

About the Program

See AS Degree in Environmental Horticulture.

Gainful Employment Information
Certificate of Achievement in Environmental Horticulture:

http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate competencies in irrigation design and construction.
- Identify turf species and their recommended management styles.
- Explain the principles of greenhouse glazing choices.

Required courses for the certificate:

AB 20	Careers in Agriculture, Environmental Science and Natural Resources		1
AET 30	Tractors and Crawlers		3
EH 99	Work Experience-EH	(P)	2
EH 20	Introduction to Environmental Horticulture		3
EH 24	Spring Plant Identification		3
or EH 23	Fall Plant Identification (3)		
EH 28	Turfgrass Management and Equipment		3
EH 30	Irrigation Practices and Materials		3
AGS 20	Plant Science		3
EH 38	Greenhouse Production		3
EH 70	Plant Propagation and Nursery Practices		3
EH 72	Landscape Business Management		3

Certificate of Achievement in Landscape/ Turfgrass Technician

24 Units

Program Code: 01302.00CA
Type: Career
GE: None

About the Program

This certificate prepares students for employment in the California horticulture and landscape contracting industries by providing practical, hands-on experience and preparation for employable technical skill training in the field of professional residential landscape design, development, and maintenance. This program is designed to give students basic skills in irrigation design, repair, installation, water management, and small equipment operation.

Gainful Employment Information
Certificate of Achievement in Landscape/Turfgrass Technician:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify common warm and cool season turfgrass species and their uses along with substitutes for turfgrasses.
- Formulate and implement a turfgrass management program for a wide variety of applications such as lawns, sports and golf course turfgrasses.

Required courses for the certificate:

EH 20	Introduction to Environmental Horticulture	3
EH 24	Spring Plant Identification	3
or EH 23	Fall Plant Identification (3)	
EH 26	Landscape Planning and Design	3
EH 28	Turfgrass Management and Equipment	3
EH 30	Irrigation Practices and Materials	3
EH 72	Landscape Business Management	3
EH 74	Irrigation System Design	3
EH 22	Landscape Construction	3

Certificate of Achievement in Nursery Technician

18 Units

Program Code: 07257.01CA
Type: Career
GE: None

About the Program

This Nursery Technician certificate provides students with the practical, hands-on experience they need to pursue employment in the areas of plant production, maintenance, or sales of ornamental and/or food crops in California. This program prepares students to advance to management positions in greenhouse and nursery businesses that propagate, grow and market plants for use in the home, business or the landscape. The program provides a solid foundation in plant knowledge and nursery and garden center environments, as well as computer applications and management skills.

Gainful Employment Information
Certificate of Achievement in Nursery Technician:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Select and correctly use florist tools, equipment and materials.
- Design and construct arrangements used in the floral industry today.
- List and analyze the costs associated with any floral design along with the appropriate markup to determine sale price.
- Identify energy usage for heating, cooling and lighting various greenhouses as a cost of doing business.
- Describe the scheduling of crop cycles including propagation start up, days to maturity, target market, price points, fertilizer and pesticide needs.
- Calculate square footage needed for various crops, as they move through the growing cycle, to understand cost inputs as compared to potential revenues generated.

Required courses for the certificate:

EH 20	Introduction to Environmental Horticulture	3
EH 24	Spring Plant Identification	3
or EH 23	Fall Plant Identification (3)	
EH 30	Irrigation Practices and Materials	3
EH 38	Greenhouse Production	3
EH 70	Plant Propagation and Nursery Practices	3
EH 26	Landscape Planning and Design	3
or EH 60	Principles of Integrated Pest Management (3)	
or EH 61	Plant Protection Materials (3)	
or EH 62	Weed Science and Invasive Plants (3)	

Certificate of Achievement in Plant Protection

42 Units

Program Code: 31512.00CA
Type: Career
GE: None

About the Program

This certificate prepares candidates for the California State Agricultural Pest Control Adviser (PCA) License examinations and Qualified Applicator License exams. It meets the minimum educational qualifications, and prepares students for exams in IPM principles, laws and regulations, pest identification, physical and biological sciences, crop health, pest management systems and methods, and production systems. Technical experience is highly encouraged through work experience placement.

PCAs have a rewarding career and earn a competitive salary. They have several career avenues to choose from such as state agencies, corporations, sole proprietary companies, and academic professions. There has never been a better time to enter the crop protection industry.

Gainful Employment Information
Certificate of Achievement in Plant Protection:
www.butte.edu/curriculum/gainful-employment/3151200CA.html

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Safely and accurately use all equipment and products relating to the plant protection industry.
- Demonstrate the most current methods and procedures in calibration of agriculture equipment.
- Apply necessary health and safety rules from the Environmental Protection Agency and the California Department of Pesticide Regulation (DPR).
- Demonstrate appropriate communications skills.
- Demonstrate an orderly performance of all tasks and skills, establishing methodical habits from state DPR laws and regulations.

Required courses for the certificate:

EH 60	Principles of Integrated Pest Management		3
Physical, Biological Sciences and Natural Sciences			
Select 12 units from the following:			12
AGS 20	Plant Science		3
CHEM 51	Elementary Inorganic Chemistry	(P)	5
CHEM 52	Elementary Organic and Biochemistry	(P)	4
BIOL 1	Introduction to Biology		4
BIOL 5	Ecology and Field Biology		4
BIOL 41	Cell and Molecular Biology	(P)	5
BIOL 15	Introduction to Microbiology	(P)	5
NR 28	Environmental Management		3
Crop Health			
Select 9 units from the following:			9
AGS 30	Ecology of Insect and Disease Management		3
AGS 50	General Soils		4
AGS 51	Fertilizers and Plant Nutrition		3
EH 30	Irrigation Practices and Materials		3
EH 74	Irrigation System Design		3
Pest Management			
Select 3 units from the following:			3
AET 34	Farm Machinery		3
EH 61	Plant Protection Materials		3
EH 62	Weed Science and Invasive Plants		3
NR 55	Wildlife Management		3
Production Systems			
Select 6 units from the following:			6
EH 20	Introduction to Environmental Horticulture		3
EH 23	Fall Plant Identification		3
EH 24	Spring Plant Identification		3
EH 28	Turfgrass Management and Equipment		3
EH 38	Greenhouse Production		3
EH 40	Wine Grape Cultivation		3
EH 41	Wine Growing Practices - Fall		3
EH 42	Wine Growing Practices - Spring		3
EH 66	Orchard Production and Management		3
EH 70	Plant Propagation and Nursery Practices		3
EH 72	Landscape Business Management		3
NR 20	Introduction to Forestry and Natural Resources		3
Select any 9 units from Crop Health, Pest Management and Production Systems not used above.			9

Emergency Medical Services (EMS)

AS Degree in Paramedic
Certificate of Achievement in Paramedic
Certificate in Emergency Medical Responder (EMR)
Certificate in Emergency Medical Technician (EMT)

Mike Smith, Chair (530) 895-2321
Department Office: AHPS 215, (530) 893-7533
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Paramedic — 60 Units Minimum

Program Code: 01343.01AS
Type: Career
GE: Butte Local

About the Program

The Paramedic program is designed to prepare the student to become a licensed paramedic in the State of California. It meets all California requirements. The program is also accredited by the Committee on Accreditation for the EMS Professions (CoAEMSP). Licensure examinations may be taken upon completion of the two-semester program.

Paramedics function as an integral part of the comprehensive Emergency Medical System (EMS). By providing care at the scene of the incident and during transport to the hospital, the paramedic must possess a variety of skills ranging from system level knowledge of the human body to operational skills in applying various technologies used in assisting patients in emergency situations. This two-year program will provide both an AS degree and the opportunity to take the national exam to receive a Paramedic license.

Employment of Emergency Medical Technicians (EMTs) and Paramedics is projected to grow 24 percent from 2014 to 2024, much faster than the average for all occupations. Emergencies, such as motor vehicle accidents, natural disasters and acts of violence, will continue to create demand for EMTs and Paramedics. Demand for part-time, volunteer EMTs and Paramedics in rural areas and smaller metropolitan areas will also continue.

Growth in the middle-aged and elderly population will lead to an increase in age-related health emergencies, such as heart attacks and strokes. This increase, in turn, will create greater demand for EMT and Paramedic services. An increase in the number of specialized medical facilities will require more EMTs and Paramedics to transfer patients with specific conditions to these facilities for treatment.

Typical areas of employment include fire departments, private ambulance companies, hospitals, private industry and events, law enforcement. and life guards.

Admission to the Program

Requires special application for admission. Prerequisites must be completed at a Regionally Accredited institution of higher education or COAEMSP. Requirements include: High school graduate or equivalent. Current National Registry EMT certification or AEMT (Advanced EMT) certification, and current BLS CPR card equivalent to the current American Heart Association's guidelines (no online CPR).
Students who successfully complete a Certificate of Achievement from Butte College May then take the National Registry examination. Nationally Registered Paramedics (NRParamedic) can then apply to their state of residence for paramedic licensure.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate in the pre-hospital setting the ability to comprehend, apply, analyze and evaluate information relevant to their role as an entry level EMT-P.
- Demonstrate in the pre-hospital setting technical proficiency in all skills necessary to fulfill the role of an entry level EMT-P.
- Demonstrate in the pre-hospital setting personal behavior consistent with professional and employer expectations of an entry level EMT-P.

Required courses for the major:			36.5 Units
EMS 170	Paramedic-Theory	(P)	21
EMS 171	Paramedic Clinical and Field Internship	(P)	15.5

Certificate of Achievement in Paramedic — 36.5 Units

Program Code: 01343.01CA
Type: Career
GE: None

About the Program

See AS Degree in EMT-Paramedic.

Gainful Employment Information
Certificate of Achievement in Paramedic:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate in the pre-hospital setting the ability to comprehend, apply, analyze and evaluate information relevant to their role as an entry level EMT-P.
- Demonstrate in the pre-hospital setting technical proficiency in all skills necessary to fulfill the role of an entry level EMT-P.
- Demonstrate in the pre-hospital setting personal behavior consistent with professional and employer expectations of an entry level EMT-P.

Required courses for the certificate:			
EMS 170	Paramedic-Theory	(P)	21
EMS 171	Paramedic Clinical and Field Internship	(P)	15.5

Certificate in Emergency Medical Responder (EMR) — 4 Units

Program Code: EMR.CC
Type: Career
GE: None

About the Program

The primary focus of the Emergency Medical Responder is to initiate immediate lifesaving care to critical patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide lifesaving interventions while awaiting additional EMS response and to assist higher level personnel at the scene and during transport. Emergency Medical Responders function as part of a comprehensive EMS response. Emergency Medical Responders perform basic interventions with minimal equipment.

This course will instruct students to the level of Emergency Medical Responder (EMR). This is the first step in the recognized ladder of training in EMS. Subsequent training enhances the knowledge and skills first learned here. The course also allows for the individual to go out and work as an EMR in such jobs as fire fighter, life guard, law enforcement officer or an in house emergency response team member in private industry. The primary focus of the EMR is to initiate immediate lifesaving care to critical patients who access the emergency medical system. The course covers the basic knowledge and skills necessary to provide lifesaving interventions while awaiting additional EMS response and to assist higher level personnel at the scene and during transport. Emergency Medical Responders function as part of a comprehensive EMS response, under medical oversight.

The department recommends that you take the following courses along with this course Medical Terminology (ALH 104) and Soft Skills for Professional Health Care (ALH 6).

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate the ability to comprehend, apply and evaluate information relevant to their role as an entry level EMR.
- Demonstrate technical proficiency in all skills necessary to fulfill the role of an entry level EMR.
- Demonstrate personal behavior consistent with professional and employer expectations of an entry level EMR.

Required courses for the certificate:

EMS 110	Emergency Medical Responder	(P)	4

Certificate in Emergency Medical Technician (EMT)

7 Units

Program Code: EMT.CC
Type: Career
GE: None

About the Program

The primary focus of the Emergency Medical Technician is to provide basic emergency medical care and transportation for critical and emergent patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. Emergency Medical Technicians function as part of a comprehensive EMS response. Emergency Medical Technicians perform interventions with basic equipment typically found on an ambulance. The Emergency Medical Technician is a link from the scene to the emergency health care system.
The department recommends that you take the following courses along with this course Medical Terminology (ALH 104), Soft Skills for Professional Health Care (ALH 6), Introduction to Human Biology (BIOL 2), Survey of Human Systems (BIOL 10).

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate the ability to comprehend, apply, analyze, and evaluate information relevant to their role as an entry level EMT.
- Demonstrate technical proficiency in all skills necessary to fulfill the role of an entry level EMT.
- Demonstrate personal behavior consistent with professional and employer expectations for the entry level EMT.

Required courses for the certificate:

EMS 111	Emergency Medical Technician	(P)	7

English (ENGL)

AA-T Degree in English
AA Degree in Language Arts

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Department Office: LRC 320, (530) 895-2581
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in English — 60 Units Minimum

Program Code: 31133.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

With the completion of the AA-T in English, students will possess the foundational knowledge and skills that comprise the core content of the first two years of many four-year programs in English.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Analyze themes within course texts and compare them to the ways these themes are treated in other course texts.
- Synthesize analyses of specific details in particular works of literature in support of a clear, overall point or thesis.
- Identify, employ and evaluate different frameworks for analyzing and interpreting literature. These frameworks may include political, socioeconomic, geographical, ethnic, cultural, ecological, psychoanalytical, historical, gender, and genre development.

Required courses for the major:			18 Units
Required Core:			
ENGL 11	Communication and Critical Thinking	(P)	3
ENGL 4	Introduction to Literature	(P)	3
List A: Select two			
ENGL 8	British Literature I		3
ENGL 10	British Literature II		3
ENGL 14	U.S. Literature I		3
ENGL 16	U.S. Literature II		3
List B: Select one			
Any course from List A not already used			
ENGL 6	Creative Writing		3
ENGL 15	Film as Literature		3
ENGL 21	Mythology		3
ENGL 25	Introduction to Shakespeare		3
ENGL 60	Creative Writing: Fiction		3
List C: Select one			
Any course from List A or B not already used			
ENGL 26	Queer Film and Literature		3
ENGL 31	Existential Literature: A Literary Approach to Self Integration		3
ENGL 35	Cross-Cultural Film and Literature		3
ENGL 45	Latino Literature and its Latin American Roots		3
ENGL 47	Native American Literature		3
ENGL 20	Introduction to Poetry		3

AA Degree in Language Arts — 60 Units Minimum

Program Code: 11131.00AA
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Assess the applications of a Language Arts AA Degree for personal advancement in educational and/or professional goals.
- Identify, employ and evaluate different frameworks and perspectives for analyzing and interpreting literature or communication artifacts. These frameworks may include political, socioeconomic, geographical, ethnic, cultural, ecological, psychoanalytical, historical, gender, sexuality, and genre development.
- Demonstrate oral, aural and non-verbal competence as appropriate to the discipline, or language.
- Define ethical communication and explain the principles that it encompasses, regardless the discipline, language or medium.
- Research, organize and create written, oral, and non-verbal messages using appropriate resources.

Required courses for the major:			18 - 19 Units
Choose 6-7 units from:			6 - 7
ENGL 2	Reading and Composition (3)	(P)	
or ENGL 3	Reading and Composition Intensive (4)	(P)	
ENGL 4	Introduction to Literature (3)	(P)	
CMST 2	Public Speaking (3)		
CMST 2H	Honors Public Speaking (3)		
CMST 4	Small Group Communication (3)		
Choose 12 units from:			12
ENGL 4	Introduction to Literature (3)	(P)	
ENGL 8	British Literature I (3)		
ENGL 10	British Literature II (3)		
ENGL 14	U.S. Literature I (3)		
ENGL 15	Film as Literature (3)		
ENGL 16	U.S. Literature II (3)		
ENGL 20	Introduction to Poetry (3)		
ENGL 21	Mythology (3)		
ENGL 25	Introduction to Shakespeare (3)		
ENGL 31	Existential Literature: A Literary Approach to Self Integration (3)		
ENGL 35	Cross-Cultural Film and Literature (3)		
ENGL 47	Native American Literature (3)		
CHIN 1	First Semester Chinese (4)		
CHIN 2	Second Semester Chinese (4)	(P)	
FREN 1	First Semester French (4)		
FREN 2	Second Semester French (4)	(P)	
ITAL 1	First Semester Italian (4)		
ITAL 2	Second Semester Italian (4)	(P)	
JPN 1	First Semester Japanese (4)		
JPN 2	Second Semester Japanese (4)	(P)	
JPN 3	Third Semester Japanese (4)	(P)	
JPN 4	Fourth Semester Japanese (4)	(P)	
LATN 1	First Semester Latin (4)		

LATN 2	Second Semester Latin (4)	(P)
LATN 3	Third Semester Latin (4)	(P)
GERM 1	First Semester German (4)	
GERM 2	Second Semester German (4)	(P)
GERM 3	Third Semester German (4)	(P)
GERM 4	Fourth Semester German (4)	(P)
ASL 1	American Sign Language I (4)	
ASL 2	American Sign Language II (4)	(P)
SPAN 1	First Semester Spanish (4)	
SPAN 2	Second Semester Spanish (4)	(P)
SPAN 3	Third Semester Spanish (4)	(P)
SPAN 4	Fourth Semester Spanish (4)	(P)
SPAN 14	Hispanic Short Stories (3)	(P)
SPAN 16	Hispanic Film (3)	(P)
CMST 2	Public Speaking (3)	
CMST 2H	Honors Public Speaking (3)	
CMST 4	Small Group Communication (3)	
CMST 6	Oral Interpretation (3)	
CMST 9	Intercultural Communication (3)	
CMST 12	Forensics (Speech and Debate) (3)	
CMST 14	Argumentation and Debate (3)	(P)

Engineering (ENGR)

AS Degree in Civil Engineering Technology
AS Degree in Engineering
Certificate of Achievement in Civil Engineering Technology

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Department Office: AHPS 251, (530) 895-2531
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Civil Engineering Technology — 60 Units Minimum

Program Code: 01322.00AS
Type: Career
GE: Butte Local

About the Program

The Civil Engineering Technology program is designed to prepare students to enter the world of Civil Engineering Technologists or Technicians. The program has sufficient breadth to include surveying, map drafting, and computer aided drafting (CAD). After completion of the two-year program, the student will be prepared to enter civil engineering technology at the entry level. To be successful in this program it is desirable that students have background in math through intermediate algebra, physics, and science. A year or more of high school drafting is a plus. Students should be prepared for a rigorous two-year training program. Students who are still enrolled in high school and considering a career as a civil engineering technologist or technician are encouraged to take classes in math, drafting and computer science.

Students who complete this program will be able to serve on a field survey crew, work in an engineering office, and prepare maps for recordation. Students will be able to prepare maps with both conventional drafting instruments and with the help of the computer (CAD). In every constituency there exists a need for trained engineering technicians and technologists. The information in this course of study is used daily in most public works departments in all counties and in all engineering offices in the state.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the history, functions, and types of engineering.
- Use survey equipment to measure and record angles and distances in the field.
- Identify the physical, mechanical, and chemical properties and the applications of the materials commonly used in engineering practice.
- Collect, analyze, and summarize data in a professional report.

Required courses for the major:			27 - 28 Units
DFT 2	Engineering Graphics I		3
DFT 12	Beginning AutoCAD Drafting		3
DFT 24	Architectural Drafting Applications		3
DFT 4	Print Reading for Construction and Architecture		3
ENGR 1	Introduction to Engineering		3
ENGR 3	Plane Surveying I	(P)	3
ENGR 4	Plane Surveying II	(P)	3
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	
MATH 20	Trigonometry	(P)	3

AS Degree in Engineering — 60 Units Minimum

Program Code: 01321.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Use the tools of Mathematics and Physics to solve engineering problems.
- Demonstrate an ability to develop engineering judgment in the solution of engineering problems by breaking problems down, solving each part, checking each solution and reassembling the problem for a final solution.
- Safely use and accurately interpret the output of standard measuring devices.
- Demonstrate knowledge of the general methods of problem solving using data gathered in the field.
- Demonstrate the ability to write comprehensive reports to communicate the analysis of various materials.

Required courses for the major:			44 - 54 Units
Required Core Courses. Students must complete core courses plus one CSU, Chico Option below			
CHEM 1	General Chemistry I	(P)	5
ENGR 17	Electrical Circuits and Devices	(P)	4
MATH 30	Analytic Geometry and Calculus I	(P)	5
MATH 31	Analytic Geometry and Calculus II	(P)	4
MATH 32	Analytic Geometry and Calculus III	(P)	4
MATH 40	Differential Equations	(P)	4
PHYS 41	Physics for Scientists and Engineers I	(P)	4
PHYS 42	Physics for Scientists and Engineers II	(P)	4
PHYS 43	Physics for Scientists and Engineers III	(P)	4
Civil Engineering Option at CSU, Chico			
ENGR 3	Plane Surveying I	(P)	3
ENGR 4	Plane Surveying II	(P)	3
ENGR 8	Statics	(P)	3
ENGR 45	Materials Science	(P)	4
DFT 12	Beginning AutoCAD Drafting		3
Computer Engineering Option at CSU, Chico			
CSCI 10	Computer Architecture and Organization	(P)	3
CSCI 20	Programming and Algorithms I		3
or CSCI 21	Programming and Algorithms II (3)	(P)	
Electrical/Electronic Engineering Option at CSU, Chico			
CSCI 10	Computer Architecture and Organization	(P)	3
CSCI 20	Programming and Algorithms I		3
Mechanical Engineering Option at CSU, Chico			
DFT 2	Engineering Graphics I		3
ENGR 8	Statics	(P)	3
ENGR 45	Materials Science	(P)	4
DFT 8	Engineering Graphics II	(P)	3

CSU, Chico also offers an option in Mechatronic Engineering. Visit www.assist,org for more information

Certificate of Achievement in Civil Engineering Technology — 21 - 22 Units

Program Code: 01322.00CA
Type: Career
GE: None

About the Program

See AS Degree in Civil Engineering Technolpgy.

Gainful Employment Information
Certificate of Achievement in Civil Engineering Technology:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the history, functions, and types of engineering.
- Use survey equipment to measure and record angles and distances in the field.
- Identify the physical, mechanical, and chemical properties and the applications of the materials commonly used in engineering practice.
- Collect, analyze, and summarize data in a professional report.

Required courses for the certificate:

ENGR 1	Introduction to Engineering		3
DFT 2	Engineering Graphics I		3
ENGR 3	Plane Surveying I	(P)	3
ENGR 4	Plane Surveying II	(P)	3
MATH 20	Trigonometry	(P)	3
DFT 12	Beginning AutoCAD Drafting		3
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	

English as a Second Language (ESL)

Noncredit Certificate of Competency in ESL
Noncredit Certificate of Completion in VESL

Kelly Fredericks, Chair (530) 893-7414
Department Office: LRC 320, (530) 895-2581
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

Noncredit Certificate of Competency in ESL — 0 Units

Program Code: NONCREDITESL
Type: Local
GE: None

About the Program

This is a certificate of competency in ESL. This sequence of non credit ESL courses that takes students from survival skills to high intermediate language proficiency in preparation for their matriculation into credit-bearing ESL courses. This program provides students with the foundational language proficiency necessary for various career fields or to matriculate into general education courses. This 102 hour certificate program can be completed in two academic semesters and requires the successful completion of at least two courses in the ESL sequence, one of which must be ESL 313.

The Certificate of Completion in Vocational ESL is a two-course sequence, with the option of a third course, is made up of non credit VESL courses that prepare students for employment in a variety of fields. These courses directly impact student employment opportunities through frequent contact with local employers and employment agencies. The elective class provides supplemental instruction in career-specific vocabulary.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Communicate effectively in English.
- Negotiate essential life exchanges and situations.
- Establish personal, academic, and vocational goals.
- Be prepared to pursue higher academic levels.

Required courses for the certificate:

ESL 313	ESL Level 3

Complete one of the courses listed below:

ESL 310	Survival/Life Skills for ESL Students
ESL 311	ESL Level 1
ESL 312	ESL Level 2
ESL 340	Technology Skills for ESL Students

Noncredit Certificate of Completion in VESL — 0 Units

Program Code: NONCREDITVESL
Type: Local
GE: None

About the Program

This is a certificate of completion in Vocational ESL. This two-course sequence, with the option of a third course, is made up of noncredit VESL courses that prepare students for employment in a variety of fields. These courses directly impact student employment opportunities through frequent contact with local employers and employment agencies. The elective course provides supplemental instruction in career-specific vocabulary.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Communicate effectively in English.
- Negotiate essential life exchanges and situations.
- Establish personal, academic, and vocational goals.

Required courses for the certificate:

ESL 352A	ESL Workforce Training Adult Education
ESL 352B	ESL Workforce Training Lab

Optional

ESL 354	Training-Specific Vocational ESL ()

Fashion (FASH)

AS Degree in Fashion Merchandising
Certificate of Achievement in Fashion Merchandising
Certificate in Clothing Construction
Certificate in Fashion Design

Daniel Donnelly, Chair (530) 895-2880
Department Office: ARTS 224, (530) 895-2404
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Fashion Merchandising — 60 Units Minimum

Program Code: 01348.00AS
Type: Career
GE: Butte Local

About the Program

Courses in Fashion Merchandising give students the opportunity to discover the inner workings of the fashion industry with many "hands-on" experiences. Fashion Merchandising emphasizes the business of buying, distributing and selling of merchandise from the manufacturing level through to the retailer and, ultimately, the consumer. A highly-specialized program in Fashion Merchandising enables students to acquire marketable skills in a minimum time. A two-year program leading to the Associate Degree is available.

As long as fashion continues to change, lucrative careers will always be available for those who are prepared to expand their personal and professional horizons. The world of fashion merchandising is a challenging, fast-paced and highly competitive field with numerous opportunities for monetary and career advancement. Positions in the ever-expanding world of fashion are available in, but not limited to, these areas: Careers include Retail: Buyer, assistant buyer, department manager, fashion/bridal consultant, store manager, merchandise manager, salesperson, shop owner, sales representative, showroom associate, personal shopper, and management trainee. Promotion: Fashion stylist, fashion coordinator, public relations, fashion commentator, special events director, and model. Media: Fashion reporter, copy writer, fashion illustrator, fashion writer, fashion editor, publicity manager, and fashion researcher.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Analyze and describe the fashion industry including innovations, careers, current trends, the impact of globalization and technology, and the expanding roles of designers.
- Analyze, describe, and apply concepts in the business of buying, distributing and selling of fashion merchandise from the manufacturing level through to the retailer and, ultimately, the consumer.
- Demonstrate command of visual presentation or production, and create a resume or relevant portfolio to be used to market him/herself in the fashion industry.

Required courses for the major: **39 Units**

BUS 20	Introduction to Business		3
BUS 35	Management and Human Relations		3
or BUS 25	Small Business Management (3)		
BUS 50	Sales in Today's World		3
BUS 66	Retail Management		3
BCIS 18	Introduction to Business Technology		3
ECON 25	Introduction to Economics		3
FASH 6	Understanding Fibers, Fabric, and Textiles		3
FASH 64	Introduction To Fashion/Retail Careers		3
FASH 74	Historic Costume		3
FASH 80	Retail Fashion Buying		3
FASH 18	Visual Merchandising		3
FASH 90	Fashion Promotions		3
FASH 99	Work Experience-FASH	(P)	3

Certificate of Achievement in Fashion Merchandising — 22 Units

Program Code: 01348.00CA
Type: Career
GE: None

About the Program

See AS Degree in Fashion Merchandising.

Gainful Employment Information
Certificate of Achievement in Fashion Merchandising:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Analyze and describe the fashion industry including innovations, careers, current trends, the impact of globalization and technology, and the expanding roles of designers.
- Analyze, describe, and apply concepts in the business of buying, distributing and selling of fashion merchandise from the manufacturing level through to the retailer and, ultimately, the consumer.
- Demonstrate command of visual presentation or production, and create a resume or relevant portfolio to be used to market him/herself in the fashion industry.

Required courses for the certificate:

FASH 6	Understanding Fibers, Fabric, and Textiles		3
FASH 64	Introduction To Fashion/Retail Careers		3
FASH 80	Retail Fashion Buying		3
FASH 18	Visual Merchandising		3
FASH 74	Historic Costume		3
FASH 90	Fashion Promotions		3
FASH 99	Work Experience-FASH	(P)	1
BCIS 18	Introduction to Business Technology		3

Certificate in Clothing Construction — 12 Units

Program Code: CLOTHINGCONSTRUCT.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Select appropriate fabrics and notions suitable to specific garment designs.
- Drape, draft or manipulate flat patterns to create accurate garment patterns.
- Lay patterns correctly and economically onto markers or fabric.
- Construct garments using various sewing techniques.
- Fit garments on various body types and be able to make the proper adjustments.

Required courses for the certificate:

FASH 9	Clothing Construction I		3
FASH 10	Clothing Construction II	(P)	3
FASH 40	Flat Pattern/Draping Design	(P)	3
DRAM 15	Costume Construction I		3

Certificate in Fashion Design

15 Units

Program Code: FASHIONDESIGN.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Analyze and describe the fashion industry including innovations, careers, current trends, the impact of globalization and technology, and the expanding roles of designers.
- Demonstrate command of visual presentation or production, and create a resume or relevant portfolio to be used to market him/herself in the fashion industry.
- Demonstrate the principles and practice of fashion design including design analysis; use of industry vocabulary; technical illustration; drafting of patterns; and effective communication of original design concepts.
- Demonstrate technical skills including machine operation; taking measurements; basic alterations; pattern layout, cutting, and preparation; and use of fabrics, tools, and supplies.

Required courses for the certificate:

Select 15 units from the following:		15
FASH 9	Clothing Construction I (3)	
FASH 10	Clothing Construction II (3)	(P)
FASH 64	Introduction To Fashion/Retail Careers (3)	
FASH 74	Historic Costume (3)	
FASH 90	Fashion Promotions (3)	
FASH 40	Flat Pattern/Draping Design (3)	(P)
FASH 13	Fashion Drawing and Illustration (3)	

Foods and Nutrition (FN)

AS-T Degree in Nutrition and Dietetics
AS Degree in Nutrition and Food Science

Brenda Stagner, Chair (530) 895-2923
Department Office: AHPS 251, (530) 895-2542
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Nutrition and Dietetics — 60 Units Minimum

Program Code: 35132.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Students who transfer to a four-year university and pursue a career in Nutrition and Dietetics have a wide variety of career options including health-care facilities, foodservice operations, nutrition-related business and industries, government agencies, community/public health programs, sports nutrition and corporate wellness programs, research areas and private practice. Many employment settings, particularly those in medical and health-care settings, require a Registered Dietitian (RD) or Registered Dietitian Nutritionist (RDN) credential.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the role of nutrition as it relates to optimal health and disease prevention.
- Critically evaluate nutrition information and differentiate between credible and non-credible sources of information.
- Use the concepts developed by chemistry and biology to explain how the nutrients and compounds found in foods affect body functions and health.
- Describe ways in which food can be contaminated and identify preventive measures to reduce sources of contamination.

Required courses for the major: **27 - 29 Units**

Required Core:			
FN 2	Nutrition		3
PSY 1	Principles of Psychology		3
CHEM 1	General Chemistry I	(P)	5
BIOL 15	Introduction to Microbiology	(P)	5
List A: (select two)			
CHEM 2	General Chemistry II	(P)	5
CHEM 21	Organic Chemistry I	(P)	5
BIOL 20	Human Anatomy		4
BIOL 21	Human Physiology	(P)	4
MATH 18	Introduction to Statistics	(P)	4
List B: (select one)			
FN 10	Food Safety and Sanitation		3

AS Degree in Nutrition and Food Science — 60 Units Minimum

Program Code: 11139.01AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

The Associate Degree in Nutrition and Food Sciences provides opportunities for students to acquire the foundational knowledge related to the scientific principles deeply rooted in the field of Nutrition, Dietetics, and Food Science including chemistry, biology and math. Students who plan to transfer to a California State University (CSU) and pursue the General Dietetics option will also acquire knowledge related to the principles of psychology. Students who plan to transfer to a CSU and pursue the Food Administration option will acquire accounting and business-related knowledge.

After completing the program students may be able to obtain an entry-level position, especially foodservice-related occupations. Students who transfer to a four-year university and pursue a career in Nutrition and Food Sciences have a wide variety of career options including health-care facilities, foodservice operations, nutrition-related business and industries, government agencies, community/public health programs, sports nutrition and corporate wellness programs, research areas and private practice. Many employment settings, particularly those in medical and health-care settings, require a Registered Dietitian (RD) or Registered Dietitian Nutritionist (RDN) credential.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify core concepts of natural and physical sciences, including Microbiology, Human Physiology, Chemistry and Statistics.
- Apply academic skills needed for success in Nutrition and Food Sciences after transfer.
- Describe ways in which food can be contaminated and identify preventive measures to reduce sources of contamination.
- General Dietetics Option: Identify the major concepts, theoretical perspectives, research methods, core empirical findings, and historic trends in Psychology.
- Nutrition Management Option: Identify and apply core concepts of Financial Accounting.
- Food and Nutrition Communication Option: Demonstrate interpersonal and/or intercultural communication concepts and principles.

Required courses for the major: **29 - 30 Units**

Students must complete core courses plus one CSU, Chico Option			
Required Core Courses			
BIOL 15	Introduction to Microbiology	(P)	5
BIOL 21	Human Physiology	(P)	4
CHEM 51	Elementary Inorganic Chemistry	(P)	5
CHEM 52	Elementary Organic and Biochemistry	(P)	4
FN 10	Food Safety and Sanitation		3
FN 15	Introduction to Nutrition, Dietetics and Food Science		1
MATH 18	Introduction to Statistics	(P)	4
General Dietetics Option at CSU, Chico			
PSY 1	Principles of Psychology		3
Nutrition Management Option at CSU, Chico			
ACCT 2	Financial Accounting		4
Food and Nutrition Communication Option at CSU, Chico			
CMST 9	Intercultural Communication		3
or CMST 10	Interpersonal Communication (3)		

Fire Science (FSC)

AS Degree in Fire Technology
Certificate of Achievement in Firefighter I Academy
Certificate of Achievement in Fire Technology
Certificate in BASIC 32
Certificate in Incident Command-Finance
Certificate in Incident Command-Logistics
Certificate in Incident Command-Operations
Certificate in Incident Command-Planning

Marshall Haslem, Chair (530) 895-2933
Department Office: AHPS 144, (530) 895-2402
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Fire Technology

60 Units Minimum

Program Code: 01362.00AS
Type: Career
GE: Butte Local

About the Program

The Fire Technology program is designed to give students the knowledge to pursue a career in fire science. Students will gain a broad working knowledge of building inspection and the many aspects of municipal and wildland firefighting. The AS should be considered a step toward a higher degree or specialized instruction. Students who complete the two-year A.S. degree will be able to seek employment in many different areas including careers in firefighting, building inspection and fire prevention.

Students interested in a fire science career have two options: the 20-week Firefighter I Academy or the two-year AS degree program.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Analyze the causes of fire, determine extinguishing agents and methods of extinguishment, differentiate the stages of fire, and compare methods of heat transfer.
- Identify and comprehend laws, regulations, codes and standards that influence fire department operations, and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and firefighter health and safety.

Required courses for the major:		**27 Units**
FSC 2	Introduction to Fire Science	3
FSC 4	Fundamentals of Fire Behavior and Combustion	3
FSC 10	Building Construction for Fire Protection	3
FSC 12	Fundamentals of Fire Prevention	3
FSC 14	Fire Protection Equipment and Systems	3
POS 2	United States Government	3
Electives - Select 9 units from the following:		9
FSC 6	Fire Tactics and Strategy (3)	
FSC 8	Principles of Fire Safety (3)	
FSC 16	Fire Company Organization and Management (3)	
FSC 18	Basic Wildland Firefighting (3)	

Certificate of Achievement in Firefighter I Academy

28.5 Units

Program Code: 32841.00CA
Type: Career
GE: None

About the Program

The Firefighter I Academy is a special admission academy that is offered twice each year (Fall and Spring) as a 20 week program, 8 hours daily. Accredited by the California State Fire Marshal (CSFM) and the State Board of Fire Services as an Accredited Regional Fire Academy, the Butte College Firefighter I Academy is considered to be one of the premier fire academies in the country. Our Academy graduates have secured fire service positions in agencies from coast to coast. The majority of fire agencies in California require both a CSFM Firefighter I certificate and an EMT-Basic certificate to qualify for a position as a firefighter. The Butte College Firefighter I Academy far exceeds these requirements. Physical conditioning is an important concern in the fire service. During the Academy, cadets receive more than 100 hours of combined physical fitness and agility course training by certified physical fitness instructors, Graduates will not only be in good physical condition, but will also be prepared for the difficult, varied and competitive fire service physical agility entry-level testing. For more detailed information or to apply to the Butte College Firefighter I Academy, please visit our website at: http://www.butte.edu/departments/careertech/publicsafety/fire_academy.html.

The Firefighter I Academy prepares students for successful completion of the Firefighter I Certificate issued by the California Office of State Fire Marshal and to enter into the workforce as entry level firefighters.

Students should be in good physical condition. Academy applicants are required to pass reading and writing tests. A basic understanding of chemistry and competence in mathematics is desirable. Students who are still enrolled in high school and considering a career in fire science are encouraged to take classes in reading, writing, mathematics and chemistry.

Gainful Employment Information
Certificate of Achievement in Firefighter I Academy:
http://www.butte.edu/academicprograms/

Admission to the Program

Completion of all prerequisite courses (prerequisites may be in progress at the time of application but must be completed prior to the start of the academy).
Prerequisites:
1. Cardiopulmonary Resuscitation Card, (CPR).
2. Attend (1) mandatory Orientation.
3. Beginning Fall 2020 students will be required to have completed EMS-110 or equivalent.

Students are admitted by application only. Contact the Public Safety Education Center (AHPS 144) or visit http://www.butte.edu/careers/publicsafety for application dates and materials. Admission to the program is based on academic and general requirements. The program will accept the first 50 applicants who complete all the required steps.
Requirements for Application and Admission: Age 17 years or older with a 12th grade education or equivalent.
A cumulative GPA of 2.6.
Current Basic Life Support CPR card equivalent to the current American Heart Association's guidelines (no online CPR).
Completion of all application forms including: Personal History Statement, Health History Statement, Immunization Record, and Physical Examination.
Fingerprinting through the California Department of Justice is required.
Applicants' conviction and incarceration history must be reviewed and evaluated for clinical eligibility, based on state standards.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the components of a personal fitness program and develop a personal fitness program that will allow them to pass a standard fire fighter employment physical ability examination.

- Successfully perform tasks which combine manipulative and technical competency required for California Firefighter I certification.
- Successfully perform tasks which combine manipulative and technical competency required for national certification for an Emergency Medical Technician (EMT).
- Certificates in other related career enhancement fields to strengthen the marketability of the student for a career into the fire service.

Required courses for the certificate:

EDUC 10	Critical Skills for College Success	(P)	.5
FSC 105	Fire Academy Physical Training	(C)	2.5
FSC 106	Firefighter I Academy	(P/C)	25.5

Certificate of Achievement in Fire Technology

27 - 28 Units

Program Code: 01362.00CA
Type: Career
GE: None

About the Program

See AS Degree in Fire Technology.

Gainful Employment Information
Certificate of Achievement in Fire Technology:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Analyze the causes of fire, determine extinguishing agents and methods of extinguishment, differentiate the stages of fire, and compare methods of heat transfer.
- Identify and comprehend laws, regulations, codes and standards that influence fire department operations, and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and firefighter health and safety.

Required courses for the certificate:

FSC 2	Introduction to Fire Science		3
FSC 4	Fundamentals of Fire Behavior and Combustion		3
FSC 12	Fundamentals of Fire Prevention		3
FSC 8	Principles of Fire Safety		3
FSC 10	Building Construction for Fire Protection		3
FSC 14	Fire Protection Equipment and Systems		3
POS 2	United States Government		3
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	
KIN Requirement-General Fitness Family			3

Certificate in BASIC 32

3 Units

Program Code: BASIC32.CC
Type: Career
GE: None

About the Program

Student will gain fundamental knowledge of the factors affecting wildland fire behavior, control prevention, and firefighter safety for entry-level employment with a federal agency wildland firefighting crew.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe wildland fire behavior.
- Describe safety tactics to be utilized in fire control operations.
- Develop a basic fire operations incident action plan and demonstrate skills of wildland fire suppression.

Required courses for the certificate:

FSC 18	Basic Wildland Firefighting	3

Certificate in Incident Command-Finance

14.25 Units

Program Code: INCIDCOMMFINANCE.CC
Type: Career
GE: None

About the Program

The Certificate in Incident Command-Finance will prepare the student foundationally to assume basic command of an incident and supervision of public safety personnel in general. Completion of the Finance classes will specifically prepare the student to handle any public safety incident purchasing and to assume roles in the Finance Section of an ICS organization as Cost Unit Leader, Compensation/Claims Unit Leader, Time Unit Leader and Procurement Unit Leader. Completion of this certificate will also help in preparing the student for advancement to Finance Section Chief in the ICS.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- supervise personnel and command an incident, or component thereof, as part of an ICS organization.
- assume roles in the Finance Section of an ICS organization as Cost Unit Leader, Compensation/Claims Unit Leader, Time Unit Leader and Procurement Unit Leader.
- complete all aspects of basic purchasing in conjunction with any incident handled by public safety.

Required courses for the certificate:

FSC 100	I-300 Intermediate Incident Command System	(P)	1
FSC 101	I-400 Advanced Incident Command System	(P)	1
FSC 102	Incident Management 2	(P)	1.5
FSC 103	Progressive Discipline		.25
FSC 104	Supervision 2		2
FSC 117	C-362 Cost Unit Leader	(P)	1.5
FSC 118	C-363 Compensation/Claims Unit Leader	(P)	2
FSC 119	C-365 Time Unit Leader	(P)	2
FSC 120	C-368 Procurement Unit Leader	(P)	2
FSC 121	Basic Purchasing		1

Certificate in Incident Command-Logistics

12.25 Units

Program Code: INCIDCOMMLOGIST.CC
Type: Career
GE: None

About the Program

The Certificate in Incident Command - Logistics will prepare the student foundationally to assume basic command of an incident and supervision of public safety personnel in general. Completion of the Logistics classes will specifically prepare the student to assume roles in the Logistics Section of an ICS organization as Facilities Unit Leader, Ground Support Unit Leader, Supply Unit Leader and Medical Unit Leader. Completion of this certificate will also help in preparing the student for advancement to Logistics Section Chief in the ICS.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- supervise personnel and command an incident, or component thereof, as part of an ICS organization.
- assume roles in the Logistics Section of an ICS organization as Facilities Unit Leader, Ground Support Unit Leader, Supply Unit Leader and Medical Unit Leader.

Required courses for the certificate:

FSC 100	I-300 Intermediate Incident Command System	(P)	1
FSC 101	I-400 Advanced Incident Command System	(P)	1
FSC 102	Incident Management 2	(P)	1.5
FSC 103	Progressive Discipline		.25
FSC 104	Supervision 2		2
FSC 122	S-354 Facilities Unit Leader	(P)	2
FSC 123	S-355 Ground Support Unit Leader	(P)	2
FSC 124	S-356 Supply Unit Leader	(P)	1.5
FSC 127	S-359 Medical Unit Leader	(P)	1

Certificate in Incident Command-Operations — 12.75 Units

Program Code: IINCIDCOMMOPER.CC
Type: Career
GE: None

About the Program

The Certificate in Incident Command - Operations will prepare the student foundationally to assume basic command of an incident and to supervise public safety personnel in general. Completion of the Operations classes will specifically prepare the student to assume a high level of responsibility in assisting with incident management, to assume roles in the Operations Section of an ICS organization asTask Force/Strike Team Leader or Division/GroupSupervisor, and to perform advanced wildland fire behavior calculations for use in fire incident management. Completion of this certificate will also help in preparing the student for advancement to Operations Section Chief in the ICS.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- supervise personnel and command an incident, or component thereof, as part of an ICS organization.
- 2. Upon completion of this certificate, students will be able to assume a high level of responsibility in assisting with incident management, able to assume roles in the Operations Section of an ICS organization as Task Force/Strike Team Leader or Division/Group Supervisor, and will be able to perform advanced wildland fire behavior calculations for use in fire incident management.

Required courses for the certificate:

FSC 100	I-300 Intermediate Incident Command System	(P)	1
FSC 101	I-400 Advanced Incident Command System	(P)	1
FSC 102	Incident Management 2	(P)	1.5
FSC 103	Progressive Discipline		.25
FSC 104	Supervision 2		2
FSC 128	S-330 Task Force/Strike Team Leader	(P)	2
FSC 129	S-339 Division/Group Supervisor	(P)	1
FSC 132	Incident Management 3	(P)	2
FSC 133	S-390 Introduction to Wildland Fire Behavior Calculations	(P)	2

Certificate in Incident Command-Planning — 12.25 Units

Program Code: INCIDCOMMPLAN.CC
Type: Career
GE: None

About the Program

The Certificate in Incident Command - Planning will prepare the student foundationally to assume basic command of an incident and to supervise public safety personnel in general. Completion of the Planning classes will specifically prepare the student to handle any public safety incident purchasing and to assume roles in the Planning Section of an ICS organization as Documentation Unit Leader, Field Observer/Display Processor, Situation Unit Leader and Demobilization/Resource Unit Leader. Completion of this certificate will also help in preparing the student for advancement to Planning Section Chief in the ICS.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- supervise public safety personnel and command of an incident, or component thereof, as part of an ICS organization.
- serve in the Planning Section of an ICS organization as Documentation Unit Leader, Field Observer/Display Processor, Situation Unit Leader and Demobilization/Resource Unit Leader.

Required courses for the certificate:

FSC 100	I-300 Intermediate Incident Command System	(P)	1
FSC 101	I-400 Advanced Incident Command System	(P)	1
FSC 102	Incident Management 2	(P)	1.5
FSC 103	Progressive Discipline		.25
FSC 104	Supervision 2		2
FSC 134	S-342 Documentation Unit Leader	(P)	1
FSC 135	S-244/245 Field Observer/Display Processor	(P)	2
FSC 136	S-346 Situation Unit Leader	(P)	1.5
FSC 137	S-347/349 Demobilization/Resource Unit Leader	(P)	2

Geography (GEOG)

AA-T Degree in Geography
Certificate in Geographic Information Systems

Randy Cousineau, Chair (530) 895-2492
Department Office: LRC 304, (530) 895-2471
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Geography

60 Units Minimum

Program Code: 31952.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

The discipline of Geography studies the spatial relationships that make every place on earth unique. This includes both the physical characteristics and cultural traditions, along with the economic and governmental structures that make each place distinct. Geographers synthesize these concepts by studying the relationship between humans and their environment, the effects the environment has on humans, and the effects humans have on the environment. The Associate in Arts in Geography for Transfer Degree supplies students with foundational knowledge in Physical Geography and Cultural Geography, plus additional coursework within the discipline, including a certificate in Geographic Information Systems (GIS).

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify fundamental concepts specific to physical and cultural Geography.
- Identify conceptual and theoretical models pertaining to world, regional, and local Geography.
- Apply applications associated with various thematic maps as well as use of geographical computer modeling.

Required courses for the major: **19 Units**

Required Core:			
GEOG 2	Physical Geography		3
GEOG 3	Physical Geography Lab	(P)	1
GEOG 4	Cultural Geography		3
List A: Select two			
GEOG 8	World Regional Geography		3
GEOG 10	Geography of California		3
GEOG 20	Introduction to Geographic Information Systems		3
List B: Select two			
Any course from List A not already used			
ANTH 4	Cultural Anthropology		3
GEOG 21	GIS Data Capture		3
GEOG 22	Remote Sensing and Spatial Analysis		3

Certificate in Geographic Information Systems

10 Units

Program Code: GIS.CC
Type: Career
GE: None

About the Program

The discipline of Geography studies the spatial relationships that make every place on earth unique. This includes both the physical characteristics and cultural traditions, along with the economic and governmental structures that make each place distinct. Geographic Information Systems (GIS) and geospatial technology are among the fastest growing fields according to the US Department of Labor. A certificate in GIS provides the student with the proficiency necessary to apply spatial thinking to analyze social and physical sciences information, helping to build better and more sustainable connections between humans and the environment.

GIS careers can be standalone and are also found in nearly every field of discipline, from law enforcement to health care and from environmental sciences to business and marketing. Having a working knowledge of GIS, whether a single course or a certificate, will make your resume stand out from the competition. GIS coursework develops critical skills such as organizational and communicational competency, identification and solving of problems, analysis and interpretation, and a high level of computer expertise. A GIS certificate provides a catalyst for a wide range of fields, including business and marketing, local and regional planning, environmental sciences, law enforcement, conservation, and all levels of government. For further information, visit the US Bureau of Labor Statistics Occupational Outlook Handbook - Cartographers and Photogrammetrists at https://www.bls.gov/ooh/architecture-and-engineering/cartographers-and-photogrammetrists.htm or, the American Association of Geographers at http://www.aag.org/careers.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Create GIS datasets for use in maps, tables, and graphs.
- Create, edit, and manipulate data, stored in proper format and with appropriate metadata.
- Perform applicable and relevant analyses of GIS datasets.
- Produce professional presentation of GIS results and provide results over a wide range of platforms.
- Properly prepare students for ESRI Desktop GIS Certification exam.

Required courses for the certificate:

GEOG 20	Introduction to Geographic Information Systems	3
GEOG 21	GIS Data Capture	3
GEOG 22	Remote Sensing and Spatial Analysis	3
GEOG 100	Review for ESRI Certification	1

Geology (GEOL)

AS-T Degree in Geology

Jason Trento, Chair (530) 879-4305
Department Office: TE 132, (530) 879-6106
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Geology

60 Units Minimum

Program Code: 32721.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and interpret common rocks, minerals, fossils and geologic structures.
- Explain the physical and biological changes that have occurred on earth throughout geologic time using modern theories such as plate tectonics and evolution.
- Demonstrate an understanding of the geologic time scale and determine the age of rocks using both relative and absolute dating methods.
- Synthesize information from plate tectonics theory and other science disciplines to solve geologic problems and explain geologic phenomena such as mountain building, patterns of igneous activity and seismicity.
- Read and interpret topographic and geologic maps in order to answer geologic questions.
- Demonstrate the analytical and critical thinking skills needed to succeed in a four-year geology program.

Required courses for the major: **27 Units**

Required Core:

GEOL 32	Physical Geology with Lab		4
GEOL 34	Historical Geology with Lab		4
CHEM 1	General Chemistry I	(P)	5
CHEM 2	General Chemistry II	(P)	5
MATH 30	Analytic Geometry and Calculus I	(P)	5
MATH 31	Analytic Geometry and Calculus II	(P)	4

Health Information Management (HIM)

Certificate of Achievement in Medical Coding

Sandy Sloan, Chair (530) 895-2385
Department Office: BE 116, (530) 895-2371
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

Certificate of Achievement in Medical Coding — 28 Units

Program Code: 35746.00CA
Type: Local
GE: None

About the Program

The Certificate of Achievement in Medical Coding is for students for who want to pursue a career as medical coders and/or billers. The medical coder and biller is responsible for reviewing patient health records, assigning appropriate codes to diagnoses and procedures performed by the healthcare provider, and submitting claims for reimbursement and collecting payments.

The Bureau of Labor Statistics is predicting that the medical coder and biller fields are growing due to an aging population requiring more medical services.

Gainful Employment Information
Certificate of Achievement in Medical Coding:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Explain the role and the responsibilities that the medical coder has in the health information management field.
- Describe the healthcare industry as it relates to health information management.
- Demonstrate a working knowledge of medical terminology as it relates to medical coding.
- Analyze healthcare legal and ethical issues in the context of the HIPAA guidelines.
- Identify the content and structure of the health record, explain the importance of documentation on code assignment, and describe the impact on the reimbursement.
- Interpret coding guidelines and accurately apply diagnosis and procedure codes utilizing ICD-10-CM, ICD-10-PCS, CPT, and HCPC.

Required courses for the certificate:

ALH 104	Medical Terminology		3
BIOL 10	Survey of Human Systems		4
BCIS 18	Introduction to Business Technology		3
HIM 56	Introduction to Health Information Management		2
HIM 62	Introduction to Medical Coding		3
HIM 58	Healthcare Law and Ethics		2
HIM 63	Reimbursement		3
HIM 64	Advanced Medical Coding	(P)	3
HIM 76	Electronic Health Records		3
BCIS 99	Work Experience-BCIS	(P)	2

History (HIST)

AA-T Degree in History

Randy Cousineau, Chair (530) 895-2492
Department Office: LRC 304, (530) 895-2471
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in History

60 Units Minimum

Program Code: 31000.01AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

History is the study of how the society we live in came to be. Through contemplation and analysis of historical materials, historians interpret the past and construct collective memory. The Associate Degree for Transfer in History supplies students with foundational knowledge in United States and World History, as well as with an introduction to the historical inquiry process. The degree offers three of five courses required in the CSU, Chico major core program, in addition to courses approved for CSU General Education.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify major developments in the history of the United States and of the world, and to examine the past from diverse perspectives.
- Apply historical reasoning to the study of the past and to think in terms of causation, context, chronology, and change and continuity.
- Utilize historical method through posing questions and conducting research, analyzing evidence, and articulating defensible conclusions.

Required courses for the major:			**18 Units**
Required Core:			
HIST 8	United States History to 1877		3
HIST 10	United States History-1877 to Present		3
List A: Select two			
HIST 3	World History to 1500		3
HIST 5	World History since 1500		3
List B: Select One course from each group			
Group 1			
HIST 20	Political History of the Middle East		3
HIST 30	History of the African American		3
ANTH 33	Ancient Mesoamerica		3
Group 2 or any course from Group 1 not already used			
HIST 18	Multicultural History of the United States		3
ECON 2	Principles of Macroeconomics	(P)	3
ECON 4	Principles of Microeconomics	(P)	3

Honors (HON)

Certificate of Achievement in Honors

Deborah McCabe, (530) 895-2287
Department Office: LRC 320, (530) 895-2581
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

Certificate of Achievement in Honors — 16 Units

Program Code: 31238.00CA
Type: Local
GE: None

About the Program

The Honors Program offers an enriched academic experience for those students who have demonstrated intellectual potential and personal commitment. As a result, successful Honors students are better prepared to continue their studies and bring their academic talents and abilities to the attention of prospective employers.

Although Honors courses meet General Education requirements for transfer to the California State University and University of California systems, this program is not designed only for purposes of transfer, but also to deepen participants' educational experience and aid and inspire students in their other coursework at Butte College. Classes require students to analyze primary original works in the area discipline, write a minimum of 5,000 words in analytical papers and reading responses, and participate in seminar-type discussions. Additionally, classes emphasize critical and independent thinking and original responses to the course material.

Gainful Employment Information
Certificate of Achievement in Honors:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Analyze and synthesize significant global ideas and primary original works.
- Demonstrate critical thinking skills in seminar-type discussions.
- Demonstrate advanced writing skills and critical, creative thinking in composing a minimum of 5,000 words in analytical papers and reading responses.
- Generate creative, original responses to course material.

Select 16 units from the following (HON 11 required):		19
ANTH 2H	Honors Physical Anthropology (3)	
ANTH 4H	Honors Cultural Anthropology (3)	
ART 2H	Honors Art History Survey I (3)	
ART 4H	Honors Art History Survey II (3)	
BIOL 9H	Honors Current Issues in Biology (3)	
CMST 2H	Honors Public Speaking (3)	
ECON 20H	Honors Economic History of the U.S. (3)	
ENGL 52H	Honors Great Works of Literature (3)	
ENGL 53H	Honors World Literature (3)	
HON 11	Honors Capstone (1)	(P)
PSC 30H	Honors Introductory Astronomy (4)	
PSY 1H	Honors Principles of Psychology (3)	
SOC 30H	Honors Sociology of Inequality (3)	

Heating, Ventilation, and Air Conditioning (HVAC)

AS Degree in HVACR
Certificate of Achievement in Commercial HVACR
Certificate of Achievement in HVACR
Certificate of Achievement in Residential HVACR
Certificate in HVACR Level I
Certificate in HVACR Level II
Certificate in HVACR Level III
Certificate in HVACR Level IV

Tom Williams, Chair (530) 895-2496
Department Office: AHPS 251, (530) 895-2551
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in HVACR

60 Units Minimum

Program Code: 38058.00AS
Type: Career
GE: Butte Local

About the Program

The Associate of Science Degree in HVACR will serve our community by providing diverse experiential learning opportunities in a progressive curriculum, using modern technology, industry cooperation, and alumni support to prepare students for a productive future in the HVACR Industry. This program is designed for students to earn small industry recognized certificates, NATE certifications, a certificate of achievement, and an A.S. degree in HVACR. The curriculum is designed to produce students with internships and hands-on experiences with industry-aligned skills to install, commission, operate, and maintain residential, commercial, and industrial Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems.

Career Opportunities

For skilled individuals employment opportunities are virtually unlimited. HVACR jobs are open in both residential and commercial industries throughout California as well as the nation and the world. There is also increased pressure throughout the skilled labor sectors due to the retirement of baby boomers. As of 2015, the industry was an $81.1 billion market, It's expected to grow by 5.5% each year through 2020. Refrigeration is expected to be a major player in this growth. In addition, we are now in a period of booming construction with people increasingly requiring facilities where they can work, live, and play comfortably in diverse climates.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Perform Manual J load calculations and Air Distribution design and installation best practices.
- Explain the basic principles of conditioning air on a large scale for facilities.
- Apply precision measurement strategies and unit conversion skills
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and installation applications.
- Manage and maintain the mechanical and electrical systems used in HVACR equipment.
- Explain how to incorporate leadership skills into work habits, including communications, motivation, team-building, problem-solving, and decision-making skills.

Required courses for the major:			60 Units
ITEC 55	Introduction to Industrial Trades		3
HVAC 11	Introduction to HVACR	(C)	4
HVAC 12	Basic HVACR Systems	(C)	4
HVAC 13	Trade Electricity	(C)	4
HVAC 21	Introduction to the Refrigerant System	(P/C)	4
HVAC 22	Intermediate HVACR Components	(P/C)	4
HVAC 23	Intermediate HVACR Concepts	(P/C)	4
HVAC 31	Advanced HVACR Components	(P/C)	4
HVAC 32	Advanced HVACR Service	(P/C)	5
HVAC 33	Internship With Local Trade Company	(P/C)	7
HVAC 41	Advanced HVACR Systems	(P/C)	4
HVAC 42	Advanced HVACR Design	(P/C)	5
HVAC 43	Advanced Internship With Local Trade Company	(P/C)	8

Certificate of Achievement in Commercial HVACR

33 Units

Program Code: 37940.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in Commercial HVACR program will serve our community by providing diverse experiential learning opportunities in a progressive curriculum, using modern technology, industry cooperation, and alumni support to prepare students for a productive future in the HVACR Industry. This program is designed for students to earn small industry recognized certificates, NATE certifications, a certificate of achievement, and an A.S. degree in HVACR. The curriculum is designed to produce students with internships and hands-on experiences with industry-aligned skills to install, commission, operate, and maintain residential, commercial, and industrial Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems.

Gainful Employment Information
Certificate of Achievement in Commercial HVACR:
http://www.butte.edu/academicprograms/

Career Opportunities

For skilled individuals employment opportunities are virtually unlimited. HVACR jobs are open in both residential and commercial industries throughout California as well as the nation and the world. There is also increased pressure throughout the skilled labor sectors due to the retirement of baby boomers. As of 2015, the industry was an $81.1 billion market, It's expected to grow by 5.5% each year through 2020. Refrigeration is expected to be a major player in this growth. In addition, we are now in a period of booming construction with people increasingly requiring facilities where they can work, live, and play comfortably in diverse climates.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Perform Manual J load calculations and Air Distribution design and installation best practices.
- Explain the basic principles of conditioning air on a large scale for facilities.
- Apply precision measurement strategies and unit conversion skills.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and installation applications.
- Manage and maintain the mechanical and electrical systems used in HVACR equipment.

- Explain how to incorporate leadership skills into work habits, including communications, motivation, team-building, problem-solving, and decision-making skills.

Required courses for the certificate:

HVAC 31	Advanced HVACR Components	(P/C)	4
HVAC 32	Advanced HVACR Service	(P/C)	5
HVAC 33	Internship With Local Trade Company	(P/C)	7
HVAC 41	Advanced HVACR Systems	(P/C)	4
HVAC 42	Advanced HVACR Design	(P/C)	5
HVAC 43	Advanced Internship With Local Trade Company	(P/C)	8

Certificate of Achievement in HVACR — 60 Units

Program Code: 37852.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in HVACR will serve our community by providing diverse experiential learning opportunities in a progressive curriculum, using modern technology, industry cooperation, and alumni support to prepare students for a productive future in the HVACR Industry. This program is designed for students to earn small industry recognized certificates, NATE certifications, a certificate of achievement, and an A.S. degree in HVACR. The curriculum is designed to produce students with internships and hands-on experiences with industry-aligned skills to install, commission, operate, and maintain residential, commercial, and industrial Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems.

Gainful Employment Information
Certificate of Achievement in HVACR:
http://www.butte.edu/academicprograms/

Career Opportunities

For skilled individuals employment opportunities are virtually unlimited. HVACR jobs are open in both residential and commercial industries throughout California as well as the nation and the world. There is also increased pressure throughout the skilled labor sectors due to the retirement of baby boomers. As of 2015, the industry was an $81.1 billion market, It's expected to grow by 5.5% each year through 2020. Refrigeration is expected to be a major player in this growth. In addition, we are now in a period of booming construction with people increasingly requiring facilities where they can work, live, and play comfortably in diverse climates.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Perform Manual J load calculations and Air Distribution design and installation best practices.
- Explain the basic principles of conditioning air on a large scale for facilities.
- Apply precision measurement strategies and unit conversion skills
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and installation applications.
- Manage and maintain the mechanical and electrical systems used in HVACR equipment.
- Explain how to incorporate leadership skills into work habits, including communications, motivation, team-building, problem-solving, and decision-making skills

Required courses for the certificate:

ITEC 55	Introduction to Industrial Trades		3
HVAC 11	Introduction to HVACR	(C)	4
HVAC 12	Basic HVACR Systems	(C)	4
HVAC 13	Trade Electricity	(C)	4
HVAC 21	Introduction to the Refrigerant System	(P/C)	4
HVAC 22	Intermediate HVACR Components	(P/C)	4
HVAC 23	Intermediate HVACR Concepts	(P/C)	4
HVAC 31	Advanced HVACR Components	(P/C)	4
HVAC 32	Advanced HVACR Service	(P/C)	5
HVAC 33	Internship With Local Trade Company	(P/C)	7
HVAC 41	Advanced HVACR Systems	(P/C)	4
HVAC 42	Advanced HVACR Design	(P/C)	5
HVAC 43	Advanced Internship With Local Trade Company	(P/C)	8

Certificate of Achievement in Residential HVACR — 27 Units

Program Code: 37943.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in Residential HVACR will serve our community by providing diverse experiential learning opportunities in a progressive curriculum, using modern technology, industry cooperation, and alumni support to prepare students for a productive future in the HVACR Industry. This program is designed for students to earn small industry recognized certificates, NATE certifications, a certificate of achievement, and an A.S. degree in HVACR. The curriculum is designed to produce students with internships and hands-on experiences with industry-aligned skills to install, commission, operate, and maintain residential, commercial, and industrial Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) systems.

Gainful Employment Information
Certificate of Achievement in Residential HVACR:
http://www.butte.edu/academicprograms/

Career Opportunities

For skilled individuals employment opportunities are virtually unlimited. HVACR jobs are open in both residential and commercial industries throughout California as well as the nation and the world. There is also increased pressure throughout the skilled labor sectors due to the retirement of baby boomers. As of 2015, the industry was an $81.1 billion market, It's expected to grow by 5.5% each year through 2020. Refrigeration is expected to be a major player in this growth. In addition, we are now in a period of booming construction with people increasingly requiring facilities where they can work, live, and play comfortably in diverse climates.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Perform Manual J load calculations and Air Distribution design and installation best practices.
- Explain the basic principles of conditioning air on a large scale for facilities.
- Apply precision measurement strategies and unit conversion skills.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and installation applications.
- Manage and maintain the mechanical and electrical systems used in HVACR equipment.
- Explain how to incorporate leadership skills into work habits, including communications, motivation, team-building, problem-solving, and decision-making skills.

Required courses for the certificate:

ITEC 55	Introduction to Industrial Trades		3
HVAC 11	Introduction to HVACR	(C)	4
HVAC 12	Basic HVACR Systems	(C)	4
HVAC 13	Trade Electricity	(C)	4
HVAC 21	Introduction to the Refrigerant System	(P/C)	4
HVAC 22	Intermediate HVACR Components	(P/C)	4
HVAC 23	Intermediate HVACR Concepts	(P/C)	4

Certificate in HVACR Level I

15 Units

Program Code: HVACRLEVELI.CC
Type: Career
GE: None

About the Program

This certificate in HVACR Level I covers the basic principles of heating, ventilating, and air conditioning, career opportunities in HVAC, and how apprenticeship programs are constructed. Basic safety principles, as well as trade licensure and EPA guidelines, are also introduced

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Apply precision measurement strategies and unit conversion skills.
- Explain the basic principles of conditioning air on a large scale for facilities.

Required courses for the certificate:

ITEC 55	Introduction to Industrial Trades		3
HVAC 11	Introduction to HVACR	(C)	4
HVAC 12	Basic HVACR Systems	(C)	4
HVAC 13	Trade Electricity	(C)	4

Certificate in HVACR Level II

12 Units

Program Code: HVACRLEVELII.CC
Type: Career
GE: None

About the Program

This certificate in HVACR Level II covers Commercial Airside Systems, Chimneys, Vents, and Flues, Introduction to Hydronic Systems, Air Quality Equipment, Leak Detection, Evacuation, Recovery, and Charging, Alternating Current, Basic Electronics, Introduction to Control Circuit Troubleshooting, Troubleshooting Gas Heating, Troubleshooting Cooling, Heat Pumps, Basic Installation and Maintenance Practices, Sheet Metal Duct Systems, and Fiberglass and Flexible Duct Systems

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Apply precision measurement strategies and unit conversion skills.
- Manage and maintain the mechanical and electrical systems used in HVACR equipment.

Required courses for the certificate:

HVAC 21	Introduction to the Refrigerant System	(P/C)	4
HVAC 22	Intermediate HVACR Components	(P/C)	4
HVAC 23	Intermediate HVACR Concepts	(P/C)	4

Certificate in HVACR Level III

16 Units

Program Code: HVACRLEVELIII.CC
Type: Career
GE: None

About the Program

This certificate in HVACR Level III covers key concepts: Fasteners, Hardware and Wiring Terminations, Control Circuit and Motor Troubleshooting, Troubleshooting Cooling, Troubleshooting Heat Pumps, Troubleshooting Gas Heating, Troubleshooting Oil Heating, Troubleshooting Accessories, Zoning, Ductless, and Variable Refrigerant Flow Systems, Commercial Hydronic Systems, Steam Systems, Retail Refrigeration Systems, and Customer Relations.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Apply precision measurement strategies and unit conversion skills.
- Perform Manual J load calculations and Air Distribution design and installation best practices.
- Explain how to incorporate leadership skills into work habits, including communications, motivation, team-building, problem-solving, and decision-making skills.

Required courses for the certificate:

HVAC 31	Advanced HVACR Components	(P/C)	4
HVAC 32	Advanced HVACR Service	(P/C)	5
HVAC 33	Internship With Local Trade Company	(P/C)	7

Certificate in HVACR Level IV

17 Units

Program Code: HVACRLEVELIV.CC
Type: Career
GE: None

About the Program

This certificate in HVACR Level IV covers key concepts: Water Treatment, Indoor Air Quality, Energy Conservation Equipment, Building Management Systems, System Air Balancing, Construction Drawings and Specifications, Heating and Cooling System Design, Commercial and Industrial Refrigeration Systems, Alternative and Specialized Heating and Cooling Systems, and Fundamentals of Crew Leadership.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Apply precision measurement strategies and unit conversion skills.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and installation applications.
- Explain how to incorporate leadership skills into work habits, including communications, motivation, team-building, problem-solving, and decision-making skills.

Required courses for the certificate:

HVAC 41	Advanced HVACR Systems	(P/C)	4
HVAC 42	Advanced HVACR Design	(P/C)	5
HVAC 43	Advanced Internship With Local Trade Company	(P/C)	8

Journalism (JOUR)

AA-T Degree in Journalism

Kelly Fredericks, Chair (530) 893-7414
Department Office: LRC 320, (530) 895-2581
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Journalism

60 Units Minimum

Program Code: 33199.01AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Write simple and complex/long form news articles using the inverted pyramid and other formats
- Build a portfolio of completed projects for student media that demonstrates a range of storytelling formats/styles and effective design/layout.
- Demonstrate leadership and management skills as an editor.

Required courses for the major:			**18 Units**
Required Core:			
RTVF 12	Mass Media and Society		3
JOUR 2	Introduction to Reporting and Newswriting		3
JOUR 10	Beginning Newspaper Production		3
List A: Select one			
JOUR 12	Intermediate Newspaper Production	(P)	3
List B: Select two			
CMST 14	Argumentation and Debate	(P)	3
ENGL 11	Communication and Critical Thinking	(P)	3
MATH 18	Introduction to Statistics	(P)	4
PHO 2	Introduction to Photography		3
POS 2	United States Government		3
POS 3	Comparative Politics		3
ECON 2	Principles of Macroeconomics	(P)	3
or ECON 4	Principles of Microeconomics (3)	(P)	

Kinesiology (KIN)

AA-T Degree in Kinesiology
AA Degree in Kinesiology
AA Degree in Physical Education: Exercise Physiology

Randy Maday, Chair (530) 895-2478
Department Office: WLR-102, (530) 895-2521
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Kinesiology — 60 Units Minimum

Program Code: 32446.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

With the completion of the AA-T in Kinesiology, students will possess foundational knowledge and skill that comprise the core content of the first two years of many four-year programs in Kinesiology.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and describe major concepts, theoretical principles, history and evolution, and current trends in kinesiology.
- Describe physical activity as it relates to physiological responses and adaptations to exercise.
- Recognize anatomical impacts on exercise related to age, gender, individual goals, and special needs.
- Demonstrate and apply scientific principles to movement in the specific areas of fitness, aquatics, combatives, individual sport and team sport.
- Develop and modify proper safety techniques for a variety of fitness programs.

Required courses for the major: — **18.5 - 20.5 Units**

Required Core:			
KIN 1	Introduction to Kinesiology		3
BIOL 20	Human Anatomy		4
BIOL 21	Human Physiology	(P)	4
Movement-based Courses (minimum 4.5 units) Select a maximum of one (1) course from any three (3) of the following areas.			
Combatives			
KIN 73	Self Defense		1.5
KIN 75	Jujitsu		1.5
KIN 76	Aikido		1.5
KIN 78	Taekwondo		1.5
Dance			
KIN 38	Ballroom Dance I		1.5
KIN 39	Ballroom Dance II		1.5
KIN 35	Aerobic Dance		1.5
Fitness			
KIN 53	Jogging/Running for Fitness		1.5
KIN 27	Core Crossfit Training		1.5
KIN 42	Yoga I		1.5
KIN 43	Yoga II		1.5
KIN 46	Tai Chi Chuan		1.5
KIN 23	Weight Training I		1.5
KIN 24	Weight Training II		1.5
Individual Sports			
KIN 60	Bowling		1.5
KIN 61	Golf		1.5
KIN 62	Tennis		1.5
Team Sports			
KIN 65	Soccer		1.5
KIN 66	Softball		1.5
KIN 67	Non-Contact Football		1.5
KIN 68	Volleyball I		1.5
KIN 69	Volleyball II		1.5
KIN 70	Basketball I		1.5
KIN 71	Basketball II		1.5
List A: Select two			
MATH 18	Introduction to Statistics	(P)	4
BIOL 2	Introduction to Human Biology		3
CHEM 1	General Chemistry I	(P)	5
CHEM 51	Elementary Inorganic Chemistry	(P)	5
PHYS 21	College Physics I	(P)	4
PHYS 41	Physics for Scientists and Engineers I	(P)	4
KIN 11	First Aid and CPR		3

AA Degree in Kinesiology — 60 Units Minimum

Program Code: 01320.01AA
Type: Local
GE: Butte Local, CSU or IGETC

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and describe major concepts, theoretical principles, history and evolution, and current trends in kinesiology.
- Assess his or her own physical activity level as it relates to lifelong fitness.
- Describe physical activity as it relates to physiological responses and adaptations to exercise.
- Recognize anatomical impacts on exercise related to age, gender, individual goals, and special needs.
- Demonstrate and apply scientific principles to movement in the specific areas of fitness, aquatics, combatives, individual sport and team sport.
- Develop and modify proper safety techniques for a variety of fitness programs.

Required courses for the major: — **20 - 21 Units**

BIOL 20	Human Anatomy		4
KIN 1	Introduction to Kinesiology		3
Select one of the following courses:			3 - 4
BIOL 21	Human Physiology	(P)	4
or KIN 11	First Aid and CPR (3)		
Take 10 units from at least 3 different groups:			10
KIN 35	Aerobic Dance		1.5
KIN 44	Jazz Dance II		1.5
KIN 76	Aikido		1.5
KIN 27	Core Crossfit Training		1.5

KIN 34	Step Aerobics	1.5
KIN 42	Yoga I	1.5
KIN 43	Yoga II	1.5
KIN 45	Pilates	1.5
Individual		
KIN 57	Archery (1.5)	
KIN 58	Badminton (1.5)	
KIN 60	Bowling (1.5)	
KIN 61	Golf (1.5)	
KIN 62	Tennis (1.5)	
KIN 63	Track and Field (1.5)	
Team Sports		
KIN 64	Baseball (1.5)	
KIN 65	Soccer (1.5)	
KIN 66	Softball (1.5)	
KIN 67	Non-Contact Football (1.5)	
KIN 68	Volleyball I (1.5)	
KIN 69	Volleyball II (1.5)	
KIN 70	Basketball I (1.5)	
KIN 71	Basketball II (1.5)	
Dance		
KIN 38	Ballroom Dance I (1.5)	
KIN 39	Ballroom Dance II (1.5)	
KIN 40	Jazz Dance I (1.5)	
Self Defense		
KIN 73	Self Defense (1.5)	
KIN 74	Boxing (1.5)	
KIN 75	Jujitsu (1.5)	
KIN 77	Karate (1.5)	
KIN 78	Taekwondo (1.5)	
Weight Training		
KIN 23	Weight Training I (1.5)	
KIN 24	Weight Training II (1.5)	
KIN 25	Olympic Weightlifting (1.5)	
KIN 28	Plyometric Training (1.5)	
KIN 29	Body Sculpting (1.5)	

AA Degree in Physical Education: Exercise Physiology

60 Units Minimum

Program Code: 11126.01AA
Type: Local
GE: Butte Local, CSU or IGETC

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and describe major concepts, theoretical principles, history and evolution, and current trends in kinesiology.
- Describe physical activity as it relates to physiological responses and adaptations to exercise.
- Recognize anatomical impacts on exercise related to age, gender, individual goals, and special needs
- Demonstrate and apply scientific principles to movement in the specific areas of fitness, aquatics, combatives, individual sport and team sport.
- Develop and modify proper safety techniques for a variety of fitness programs.

Required courses for the major:			**27 - 28.5 Units**
BIOL 20	Human Anatomy		4
BIOL 21	Human Physiology	(P)	4
KIN 1	Introduction to Kinesiology		3
MATH 18	Introduction to Statistics	(P)	4
PHYS 21	College Physics I	(P)	4
Select 2 courses from:			
CHEM 51	Elementary Inorganic Chemistry	(P)	5
and CHEM 52	Elementary Organic and Biochemistry (4)	(P)	
or CHEM 1	General Chemistry I (5)	(P)	
and CHEM 2	General Chemistry II (5)	(P)	
Complete 2 -3 KIN Activity Courses Excluding KIN 51			3 - 4.5

Mathematics (MATH)

AS-T Degree in Mathematics
AS Degree in Mathematics

Juliet Hauser, Chair (530) 879-4300
Department Office: TE 132, (530) 895-2451
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Mathematics

60 Units Minimum

Program Code: 31953.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

The degree is designed to prepare students for upper division study in Mathematics and related disciplines. The role of Mathematics is vital and growing, providing solutions to problems in a wide range of fields. Mathematics is a study in its own right. It is also an essential tool for expressing and understanding ideas in the sciences: social, biological, physical, behavioral, and management. As a result, employment opportunities for Math Majors have been expanding in recent years. To begin this degree students must either have completed the prerequisites for Math 30 (Calculus 1) which include Trigonometry and College Algebra, or receive a qualifying placement from the assessment office.

Mathematics graduates at the bachelor's level are qualified to pursue a career in fields such as mathematics, engineering, statistics, operations research, actuarial science, business management, law enforcement, military science, government, and education. They also frequently enter graduate programs to pursue advanced degrees in Mathematics or related majors.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Define, understand, and apply concepts of limits, differentiation, and integration to authentic problems.
- Apply methods of matrix transformations to solve both practical and theoretical problems.
- Determine whether a theorem or definition applies in a given situation and use it appropriately.
- Demonstrate good problem-solving habits including estimating solutions and rejecting unreasonable results.
- Demonstrate the ability to use symbolic, graphical, numerical, and written representations of mathematical ideas.

Required courses for the major: **19 - 21 Units**

Required Core:

MATH 30	Analytic Geometry and Calculus I	(P)	5
MATH 31	Analytic Geometry and Calculus II	(P)	4
MATH 32	Analytic Geometry and Calculus III	(P)	4

Choose a minimum of 6 units from the Lists below with at least 3 units from List A.

List A: Select one to two

MATH 40	Differential Equations	(P)	4
MATH 42	Linear Algebra	(P)	3

List B: Select one

PHYS 41	Physics for Scientists and Engineers I	(P)	4
CSCI 20	Programming and Algorithms I		3
MATH 18	Introduction to Statistics	(P)	4

AS Degree in Mathematics

60 Units Minimum

Program Code: 01355.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Define, understand, and apply concepts of limits, differentiation, and integration to authentic problems.
- Apply methods of matrix transformations to solve both practical and theoretical problems.
- Determine whether a theorem or definition applies in a given situation and use it appropriately.
- Demonstrate good problem-solving habits including estimating solutions and rejecting unreasonable results.
- Demonstrate the ability to use symbolic, graphical, numerical, and written representations of mathematical ideas.

Required courses for the major: **23 Units**

MATH 30	Analytic Geometry and Calculus I	(P)	5
MATH 31	Analytic Geometry and Calculus II	(P)	4
MATH 32	Analytic Geometry and Calculus III	(P)	4
MATH 40	Differential Equations	(P)	4
MATH 42	Linear Algebra	(P)	3
CSCI 20	Programming and Algorithms I		3

Multicultural and Gender Studies (MCGS)

AA Degree in Multicultural and Gender Studies

Heather Valle, Chair (530) 895-2553
Department Office: LRC 304, (530) 895-2471
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA Degree in Multicultural and Gender Studies

60 Units Minimum

Program Code: 36259.00AA
Type: Local
GE: CSU

About the Program

The degree in Multicultural and Gender Studies is an interdisciplinary approach to cultural analysis within and across cultural groups in the United States, with emphasis on the role of class, race, and gender in shaping cultural identities. This program emphasizes critical thinking, collaborative learning, activism, and advocacy, skills which can be applied to a host of careers. There is a growing demand in fields such as management, health and community services, public administration, government services, insurance, sales and personnel firms for individuals with educational backgrounds in diversity studies. Similarly, there are increasing opportunities for work in industry, higher education, nonprofit and public policy. The AA degree in Multicultural and Gender Studies is an excellent major for any student.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the major concepts, perspectives, research methods, and historic trends in Multicultural and Gender Studies (MCGS).
- Evaluate and differentiate the experiences of diversities such as race/ethnicity, sex and gender, and religion.
- Identify and analyze contemporary social problems and issues of multiculturalism, gender, race, ethnicity, and social inequality.

Required courses for the major:		**18 Units**
Required Core:		
CMST 9	Intercultural Communication	3
CMST 13	Gender and Communication	3
MCGS 8	Introduction to Multicultural and Gender Studies	3
MCGS 10	Introduction to Women's Studies	3
Select 1 course from the following:		
MCGS 32	Introduction to African American Studies	3
ANTH 34	Native Americans Today	3
MCGS 36	Introduction to Chicano American Studies	3
MCGS 38	Introduction to Asian American Studies	3
Select 1 course from the following:		
ENGL 26	Queer Film and Literature	3
HIST 18	Multicultural History of the United States	3
HIST 26	Men and Women in American History	3
HIST 30	History of the African American	3
SOC 14	Sociology of Gender	3
SOC 20	Introduction to Race and Ethnicity	3

Manufacturing (MFG)

AS Degree in Advanced Manufacturing
Certificate of Achievement in Advanced Manufacturing
Certificate of Achievement in Manufacturing Operations
Certificate of Achievement in Production Management
Certificate in Advanced Manufacturing Level I
Certificate in Advanced Manufacturing Level II
Certificate in Advanced Manufacturing Level III
Certificate in Advanced Manufacturing Level IV

Miles Peacock, Chair (530) 879-6162
Department Office: AHPS 251, (530) 895-2551
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Advanced Manufacturing — 60 Units Minimum

Program Code: 38056.00AS
Type: Career
GE: Butte Local

About the Program

The Associate of Science Degree in Advanced Manufacturing program will provide diverse experiential learning opportunities within a progressive curriculum, using advanced technology, industry cooperation, and alumni support to prepare students for productive futures in the Manufacturing industry. This program will present a range of opportunities for students to earn small industry-recognized certificates as well as more a comprehensive Certificate of Achievement in Advanced Manufacturing. Students will additionally have the opportunity to earn an A.S. Degree which is designed to prepare students to contribute in the manufacturing process from design to finish in a managerial capacity. This will be accomplished with training that employs industry tours, internships and hands-on experiences with manual, semi-automatic, and CNC equipment operations that models industry principles and practices during the process of advanced manufacturing.

Career Opportunities

For skilled individuals employment opportunities are virtually unlimited. Manufacturing jobs are open in both heavy and light industries throughout California as well as the nation and the world. The United States faces a need for nearly 3.5 million manufacturing jobs over the next decade, and 2 million of those jobs are likely to go unfilled due to a skills gap, according to new research from Deloitte and the Manufacturing Institute.

Admission to the Program

The prerequisites to the program is the completion of ITEC 55.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Use various software tools used in CNC manufacturing equipment and product design
- Explain the basic principles of feed and speed settings on various manufacturing platforms.
- Apply precision measurement strategies and unit conversion skills.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and manufacturing applications.
- Manage and maintain the mechanical and electrical systems used in manufacturing equipment.
- Employ Enterprise Resource Planning (ERP) software that enables manufacturers to perform cost/benefit analysis of various manufacturing techniques.

Required courses for the major:			62 Units
MFG 10	Introduction to Manufacturing Equipment	(P/C)	8
MFG 12	Introduction to Production Welding	(P/C)	3
MFG 14	Introduction to Finishing	(P/C)	3
MFG 16	Introduction to the Process of Modeling to Production	(P/C)	3
MFG 20	Manufacturing Equipment	(P/C)	8
MFG 22	Production Welding	(P/C)	3
MFG 24	Finishing	(P/C)	3
MFG 26	Intermediate Modeling to Production	(P/C)	3
MFG 30	ERP (Enterprise Resource Planning) Software for Manufacturing	(P/C)	3
MFG 32	Introduction to Robotic Welding	(P/C)	4
MFG 34	3D Modeling to Production	(P/C)	3
MFG 36	Internship W/ Local Trade Company	(P/C)	4
MFG 40	Advanced ERP (Enterprise resource Planning) Software for Manufacturing	(P/C)	3
MFG 42	Advanced Robotic Welding	(P/C)	4
MFG 44	Advanced 3D Modeling to Production	(P/C)	3
MFG 46	Advanced Internship W/ Local Trade Company	(P/C)	4

Certificate of Achievement in Advanced Manufacturing — 62 Units

Program Code: 37939.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in Advanced Manufacturing will provide diverse experiential learning opportunities within a progressive curriculum, using advanced technology, industry cooperation, and alumni support to prepare students for productive futures in the Manufacturing industry. This program will present a range of opportunities for students to earn small industry-recognized certificates as well as more a comprehensive Certificate of Achievement in Advanced Manufacturing. Students will additionally have the opportunity to earn an A.S. Degree which is designed to prepare students to contribute in the manufacturing process from design to finish in a managerial capacity. This will be accomplished with training that employs industry tours, internships and hands-on experiences with manual, semi-automatic, and CNC equipment operations that models industry principles and practices during the process of advanced manufacturing.

Gainful Employment Information
Certificate of Achievement in Advanced Manufacturing:
http://www.butte.edu/academicprograms/

Career Opportunities

For skilled individuals employment opportunities are virtually unlimited. Manufacturing jobs are open in both heavy and light industries throughout California as well as the nation and the world. The United States faces a need for nearly 3.5 million manufacturing jobs over the next decade, and 2 million of those jobs are likely to go unfilled due to a skills gap, according to new research from Deloitte and the Manufacturing Institute.

Admission to the Program

The prerequisites to the program is the completion of ITEC 55.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.

- Use various software tools used in CNC manufacturing equipment and product design.
- Explain the basic principles of feed and speed settings on various manufacturing platforms.
- Apply precision measurement strategies and unit conversion skills.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and manufacturing applications.
- Manage and maintain the mechanical and electrical systems used in manufacturing equipment.
- Employ Enterprise Resource Planning (ERP) software that enables manufacturers to perform cost/benefit analysis of various manufacturing techniques.
- Practice safety skills required on job sites.

Required courses for the certificate:

MFG 10	Introduction to Manufacturing Equipment	(P/C)	8
MFG 12	Introduction to Production Welding	(P/C)	3
MFG 14	Introduction to Finishing	(P/C)	3
MFG 16	Introduction to the Process of Modeling to Production	(P/C)	3
MFG 20	Manufacturing Equipment	(P/C)	8
MFG 22	Production Welding	(P/C)	3
MFG 24	Finishing	(P/C)	3
MFG 26	Intermediate Modeling to Production	(P/C)	3
MFG 30	ERP (Enterprise Resource Planning) Software for Manufacturing	(P/C)	3
MFG 32	Introduction to Robotic Welding	(P/C)	4
MFG 34	3D Modeling to Production	(P/C)	3
MFG 36	Internship W/ Local Trade Company	(P/C)	4
MFG 40	Advanced ERP (Enterprise resource Planning) Software for Manufacturing	(P/C)	3
MFG 42	Advanced Robotic Welding	(P/C)	4
MFG 44	Advanced 3D Modeling to Production	(P/C)	3
MFG 46	Advanced Internship W/ Local Trade Company	(P/C)	4

Certificate of Achievement in Manufacturing Operations

34 Units

Program Code: 37945.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in Manufacturing Operations will provide diverse experiential learning opportunities within a progressive curriculum, using advanced technology, industry cooperation, and alumni support to prepare students for productive futures in the Manufacturing industry. This program will present a range of opportunities for students to earn small industry-recognized certificates as well as more a comprehensive Certificate of Achievement in Advanced Manufacturing. Students will additionally have the opportunity to earn an A.S. Degree which is designed to prepare students to contribute in the manufacturing process from design to finish in a managerial capacity. This will be accomplished with training that employs industry tours, internships and hands-on experiences with manual, semi-automatic, and CNC equipment operations that models industry principles and practices during the process of advanced manufacturing.

Gainful Employment Information
Certificate of Achievement in Manufacturing Operations:
http://www.butte.edu/academicprograms/

Career Opportunities

For skilled individuals employment opportunities are virtually unlimited. Manufacturing jobs are open in both heavy and light industries throughout California as well as the nation and the world. The United States faces a need for nearly 3.5 million manufacturing jobs over the next decade, and 2 million of those jobs are likely to go unfilled due to a skills gap, according to new research from Deloitte and the Manufacturing Institute.

Admission to the Program

The prerequisites to the program is the completion of ITEC 55.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Use various software tools used in CNC manufacturing equipment and product design.
- Explain the basic principles of feed and speed settings on various manufacturing platforms.
- Apply precision measurement strategies and unit conversion skills.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and manufacturing applications.
- Manage and maintain the mechanical and electrical systems used in manufacturing equipment.
- Employ Enterprise Resource Planning (ERP) software that enables manufacturers to perform cost/benefit analysis of various manufacturing techniques.

Required courses for the certificate:

MFG 10	Introduction to Manufacturing Equipment	(P/C)	8
MFG 12	Introduction to Production Welding	(P/C)	3
MFG 14	Introduction to Finishing	(P/C)	3
MFG 16	Introduction to the Process of Modeling to Production	(P/C)	3
MFG 20	Manufacturing Equipment	(P/C)	8
MFG 22	Production Welding	(P/C)	3
MFG 24	Finishing	(P/C)	3
MFG 26	Intermediate Modeling to Production	(P/C)	3

Certificate of Achievement in Production Management

28 Units

Program Code: 37942.00CA
Type: Career
GE: None

About the Program

The Certificate of Achievement in Production Management will provide diverse experiential learning opportunities within a progressive curriculum, using advanced technology, industry cooperation, and alumni support to prepare students for productive futures in the Manufacturing industry. This program will present a range of opportunities for students to earn small industry-recognized certificates as well as more a comprehensive Certificate of Achievement in Advanced Manufacturing. Students will additionally have the opportunity to earn an A.S. Degree which is designed to prepare students to contribute in the manufacturing process from design to finish in a managerial capacity. This will be accomplished with training that employs industry tours, internships and hands-on experiences with manual, semi-automatic, and CNC equipment operations that models industry principles and practices during the process of advanced manufacturing.

Gainful Employment Information
Certificate of Achievement in Production Management:
http://www.butte.edu/academicprograms/

Career Opportunities

For skilled individuals employment opportunities are virtually unlimited. Manufacturing jobs are open in both heavy and light industries throughout California as well as the nation and the world. The United States faces a need for nearly 3.5 million manufacturing jobs over the next decade, and 2 million of those jobs are likely to go unfilled due to a skills gap, according to new research from Deloitte and the Manufacturing Institute.

Admission to the Program

The prerequisites to the program is the completion of ITEC 55.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Use various software tools used in CNC manufacturing equipment and product design.
- Explain the basic principles of feed and speed settings on various manufacturing platforms.
- Apply precision measurement strategies and unit conversion skills.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and manufacturing applications.
- Manage and maintain the mechanical and electrical systems used in manufacturing equipment.
- Employ Enterprise Resource Planning (ERP) software that enables manufacturers to perform cost/benefit analysis of various manufacturing techniques.

Required courses for the certificate:

MFG 30	ERP (Enterprise Resource Planning) Software for Manufacturing	(P/C)	3
MFG 32	Introduction to Robotic Welding	(P/C)	4
MFG 34	3D Modeling to Production	(P/C)	3
MFG 36	Internship W/ Local Trade Company	(P/C)	4
MFG 40	Advanced ERP (Enterprise resource Planning) Software for Manufacturing	(P/C)	3
MFG 42	Advanced Robotic Welding	(P/C)	4
MFG 44	Advanced 3D Modeling to Production	(P/C)	3
MFG 46	Advanced Internship W/ Local Trade Company	(P/C)	4

Certificate in Advanced Manufacturing Level I

17 Units

Program Code: ADVMFGLEVELI.CC
Type: Career
GE: None

About the Program

This certificate in Advanced Manufacturing Level I covers the basic principles of the introduction to manufacturing equipment, production welding, finishing, and modeling to production. Basic safety principles, as well as the introduction to trade licensure and manufacturing guidelines used in the industry.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Apply precision measurement strategies and unit conversion skills.
- Explain the basic principles of feed and speed settings on various manufacturing platforms.

Required courses for the certificate:

MFG 10	Introduction to Manufacturing Equipment	(P/C)	8
MFG 12	Introduction to Production Welding	(P/C)	3
MFG 14	Introduction to Finishing	(P/C)	3
MFG 16	Introduction to the Process of Modeling to Production	(P/C)	3

Certificate in Advanced Manufacturing Level II

17 Units

Program Code: ADVMFGLEVELII.CC
Type: Career
GE: None

About the Program

This certificate in Advanced Manufacturing Level II covers the principles, setup and operations of manufacturing equipment, production welding, finishing, and modeling to production. Basic safety principles, as well as trade licensure preparation and manufacturing guidelines used in the industry.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Apply precision measurement strategies and unit conversion skills.
- Use various software tools used in CNC manufacturing equipment and product design.
- Manage and maintain the mechanical and electrical systems used in manufacturing equipment.

Required courses for the certificate:

MFG 20	Manufacturing Equipment	(P/C)	8
MFG 22	Production Welding	(P/C)	3
MFG 24	Finishing	(P/C)	3
MFG 26	Intermediate Modeling to Production	(P/C)	3

Certificate in Advanced Manufacturing Level III

14 Units

Program Code: ADVMFGLEVELIII.CC
Type: Career
GE: None

About the Program

This certificate in Advanced Manufacturing Level III covers the introduction and principles of ERP software for manufacturing, introduction to robotic welding, 3D modeling to production, and an internship with local trade company. Safety principles are always practiced, as well as trade licensure preparation and manufacturing guidelines used in the industry.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Apply precision measurement strategies and unit conversion skills.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and manufacturing applications.
- Manage and maintain the mechanical and electrical systems used in manufacturing equipment.

Required courses for the certificate:

MFG 30	ERP (Enterprise Resource Planning) Software for Manufacturing	(P/C)	3
MFG 32	Introduction to Robotic Welding	(P/C)	4
MFG 34	3D Modeling to Production	(P/C)	3
MFG 36	Internship W/ Local Trade Company	(P/C)	4

Certificate in Advanced Manufacturing Level IV

14 Units

Program Code: ADVMFGLEVELIV.CC
Type: Career
GE: None

About the Program

This certificate in Advanced Manufacturing Level IV covers the advanced principles of ERP software for manufacturing, robotic welding, 3D modeling to production, and an internship with local trade company. Safety principles are always practiced, as well as testing for trade licensure and manufacturing guidelines used in the industry.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Practice safety skills required on job sites.
- Apply precision measurement strategies and unit conversion skills.
- Interpret technical drawings and schematics for use in cost estimation, scheduling, and manufacturing applications.
- Employ Enterprise Resource Planning (ERP) software that enables manufacturers to perform cost/benefit analysis of various manufacturing techniques

Required courses for the certificate:

MFG 40	Advanced ERP (Enterprise resource Planning) Software for Manufacturing	(P/C)	3
MFG 42	Advanced Robotic Welding	(P/C)	4
MFG 44	Advanced 3D Modeling to Production	(P/C)	3
MFG 46	Advanced Internship W/ Local Trade Company	(P/C)	4

Multimedia Studies Program (MSP)

AA Degree in Graphic Design
AS Degree in Graphic Design for Print
AS Degree in Multimedia Studies
Certificate of Achievement in Multimedia Studies
Certificate in 2D Animation and Games

Daniel Donnelly, Chair (530) 895-2880
Department Office: ARTS 224, (530) 895-2404
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA Degree in Graphic Design — 60 Units Minimum

Program Code: 11140.00AA
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Use critical thinking and problem solving skills to create a Graphic Design portfolio to show to potential clients or as an entry portfolio for transfer.
- Demonstrate proficient use and knowledge of current design software tools, processes and presentation methods.
- Research, discuss, and write about historic and current trends, movements, figures and technologies related to Graphic Design.

Required courses for the major:		18 Units
ART 2	Art History Survey I	3
or ART 2H	Honors Art History Survey I (3)	
or ART 4	Art History Survey II (3)	
or ART 4H	Honors Art History Survey II (3)	
ART 7	2-D Foundations	3
ART 8	Basic Drawing	3
ART 31	Graphic Design I	3
PHO 2	Introduction to Photography	3
RTVF 12	Mass Media and Society	3

AS Degree in Graphic Design for Print — 60 Units Minimum

Program Code: 07264.00AS
Type: Career
GE: Butte Local

About the Program

In the Graphic Design program, students receive hands-on training in many areas of the visual communications field. Butte College offers a complete design and computer lab to aid in the development of job-related skills and techniques. Many of the instructors are working professionals who take time from their careers to teach. Their awareness of the demands of business and industry brings knowledge to the classroom of what is happening now in the field as well as future trends. The goal of the Butte College Graphic Design program is to prepare students for entry level positions. Students who successfully complete the program and plan to earn a four-year degree will have a solid foundation for application to the design school of their choice.
The field of graphic design offers many opportunities and options for the creative individual who has worked hard to develop the necessary skills and techniques. Upon completion of the program the student will have a working familiarity with most aspects of these rapidly growing fields. The department highly recommends that the student entering the second year of the Graphic Design program have access outside of school to a computer with the Adobe Suite software.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Employ critical thinking and conceptual problem-solving skills to create a portfolio of graphic design for print, which is up to standards for employment interviews in the current market.
- Demonstrate expert use of graphic design tools and computer equipment.
- Discuss, write about, organize and assemble a graphic design for print presentation or display before a live audience in an exhibition, online, or through other means of distribution and presentation.

Required courses for the major:			44 Units
ART 1	Art Appreciation		3
or ART 2	Art History Survey I (3)		
or ART 2H	Honors Art History Survey I (3)		
or ART 4	Art History Survey II (3)		
or ART 4H	Honors Art History Survey II (3)		
ART 7	2-D Foundations		3
ART 8	Basic Drawing		3
ART 31	Graphic Design I		3
ART 32	Creative Typography		3
ART 34	Graphic Design II	(P)	3
ART 35	Illustration Art I		3
ART 36	Illustration Art II	(P)	3
ART 70	Gallery Production/Business of Art		2
BUS 60	Advertising and Copywriting		3
MSP 1	Multimedia Careers		3
MSP 5	Introduction to Interactive Web Design and Authoring		3
MSP 96	Introduction to Computer Graphics		3
PHO 2	Introduction to Photography		3
RTVF 12	Mass Media and Society		3

AS Degree in Multimedia Studies — 60 Units Minimum

Program Code: 09582.00AS
Type: Career
GE: Butte Local

About the Program

Multimedia Studies is a comprehensive program that recognizes the need to prepare the student for the world of work in today's high performance organization. This program delivers a dynamic, multidisciplinary, interactive, project-based curriculum designed to foster creativity, teamwork, and professionalism. While providing laboratory experiences for the development of skills in multimedia and related technical areas, the student will also develop competencies in workforce preparation, such as in portfolio development, communications, and high performance organization workplace skills. The Multimedia Studies Program New Media Lab is a state-of-the-art Macintosh-based multimedia lab equipped with industry standard computer and state-of-the-art multimedia applications. Students build a strong foundation of skills and knowledge graphic design, video, multimedia and animation, idea presentation, portfolio development, and an overview of the opportunities in Multimedia.

All areas of the multimedia industry are experiencing unprecedented growth in order to meet the industry's needs. There is a constant demand for highly skilled, qualified, and knowledgeable workers, and the rapidly expanding growth of drone video and photography, and 3D printing technologies, is creating a need for workers with these skills.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Employ critical thinking and conceptual problem-solving skills to create a portfolio and body of work to be used for promotion, client and project acquisition as a freelance designer, and to be used for obtaining employment in the design industry.
- Demonstrate expert use of equipment, materials and software when creating multimedia projects.
- Discuss, write about, organize and produce works for presentation to clients, employers and implementation based on project needs.

Required courses for the major: **33 Units**

Complete 33 units from the courses listed below. These courses are grouped according to Skill Sets to reflect specific interest areas. Students are encouraged, but not required, to complete at least one Skill Set as part of the 33 units required for the major.

MSP Skill Sets

Digital Photography

MSP 1	Multimedia Careers		3
PHO 2	Introduction to Photography		3
PHO 4	Color Photography	(P)	3
PHO 8	Commercial Photography	(P)	3
MSP 5	Introduction to Interactive Web Design and Authoring		3

Graphic Design for Print and Digital Media

ART 7	2-D Foundations		3
ART 31	Graphic Design I		3
MSP 1	Multimedia Careers		3
MSP 30	Introduction to Digital Art		3
ART 32	Creative Typography		3
ART 35	Illustration Art I		3
or MSP 5	Introduction to Interactive Web Design and Authoring (3)		

Three-Dimensional Arts

ART 8	Basic Drawing		3
or ART 14	Basic Figure Drawing (3)		
MSP 1	Multimedia Careers		3
MSP 30	Introduction to Digital Art		3
MSP 96	Introduction to Computer Graphics		3
ART 9	3-D Foundation		3
MSP 12	Two-Dimensional Animation		3
MSP 45	3-D Computer Modeling and Animation		3

Interactive Web Design and Digital Authoring

MSP 1	Multimedia Careers		3
MSP 30	Introduction to Digital Art		3
MSP 74	Multimedia Production I		3
MSP 96	Introduction to Computer Graphics		3
MSP 5	Introduction to Interactive Web Design and Authoring		3
MSP 75	Multimedia Production II	(P)	3

Digital Audio and Video

MSP 1	Multimedia Careers		3
MSP 30	Introduction to Digital Art		3
RTVF 40	Digital Video Production		3
MSP 5	Introduction to Interactive Web Design and Authoring		3
MSP 10	Digital Video Design and Production		3
MSP 12	Two-Dimensional Animation		3

Certificate of Achievement in Multimedia Studies — 24 Units

Program Code: 09582.00CA
Type: Career
GE: None

About the Program

See AS Degree in Multimedia Studies.

Gainful Employment Information
Certificate of Achievement in Multimedia Studies:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Employ critical thinking and conceptual problem-solving skills to create a portfolio and body of work to be used for promotion, client and project acquisition as a freelance designer, and to be used for obtaining employment in the design industry.
- Demonstrate expert use of equipment, materials and software when creating multimedia projects.
- Discuss, write about, organize and produce works for presentation to clients, employers and implementation based on project needs.

Required courses for the certificate:

A Certificate of Achievement in Multimedia Studies will be awarded upon completion of 24 or more units from any courses listed in the AS degree.		24

Certificate in 2D Animation and Games — 9 Units

Program Code: 2DANIMATANDGAMES.CC
Type: Career
GE: None

About the Program

The certificate in 2D Animation and Games prepares the student for entry-level positions in the fast-growing gaming and animation industry. The certificate develops within the sudent a dynamic, multidisciplinary skill set which fosters growth in both the visual arts and coding for games. The new media labs housed within the Multimedia Studies program are equipped with state-of-the-art computers, software, and monitors which allow the student to experience the tools that professional animators and game designers are using today.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Edit and create graphics for animation and gaming applications.
- Create 2D animations using industry standard software.
- Discuss the principles of animation and game design.
- Create game assets and control them with Actionscript.

Required courses for the certificate:

MSP 96	Introduction to Computer Graphics	3
MSP 12	Two-Dimensional Animation	3
MSP 42	Flash Game Design	3

Music (MUS)

AA-T Degree in Music
AS Degree in Recording Arts
Certificate of Achievement in Recording Arts
Certificate in Recording Arts for Musicians

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Department Office: ARTS 224, (530) 895-2404
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Music — 60 Units Minimum

Program Code: 32469.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Play their chosen instrument or sing at an advanced level.
- Demonstrate the ability to either play or sing new music at sight.
- Analyze a given piece of music in terms of chords and chord structure, modulation, cadences, and form.
- Articulate the principles of playing in an ensemble.
- Describe effective practice techniques.
- Listen to a piece of music and identify its genre.

Required courses for the major:			24 Units
MUS 10	Music Theory I	(C)	3
MUS 11	Musicianship I	(C)	1
MUS 12	Music Theory II	(P/C)	3
MUS 13	Musicianship II	(P/C)	1
MUS 14	Music Theory III	(P/C)	3
MUS 15	Musicianship III	(P/C)	1
MUS 16	Music Theory IV	(P/C)	3
MUS 17	Musicianship IV	(P/C)	1
Take one or a combination of both courses 4 times for a total of 4 units.			
MUS 60	Performance Ensemble		1
MUS 70	Choir		1
Complete One Applied Music Area Listed Below:			
MUS 20	Guitar I		1
MUS 21	Guitar II	(P)	1
MUS 22	Guitar III	(P)	1
MUS 23	Guitar IV	(P)	1
or			
MUS 30	Voice I		1
MUS 31	Voice II	(P)	1
MUS 32	Voice III	(P)	1
MUS 33	Voice IV	(P)	1
or			
MUS 40	Piano I		1
MUS 41	Piano II	(P)	1
MUS 42	Piano III	(P)	1
MUS 43	Piano IV	(P)	1

AS Degree in Recording Arts — 60 Units Minimum

Program Code: 33222.00AS
Type: Career
GE: Butte Local

About the Program

The Recording Arts program provides students with fundamental to advanced knowledge and understanding of audio recording techniques and applications. Students learn audio recording methods and how to operate the equipment used in a professional recording studio. Courses include theory, performance, industry standard recording software and hands-on exposure to production processes including tracking, overdubbing, mixing and mastering by participating in recording sessions.

The program prepares students for a host of careers within and beyond the recording studio, including but not limited to Assistant Engineer, Assistant Mix Engineer, Studio Booking Technician, Audio/Visual Technician, Studio Owner, Information Technology Specialist and Customer Service Representative, Video Game Audio Engineer, and TV and Film Audio Engineer.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Make technically competent recordings of real instruments in a studio setting.
- Utilize computer-based music software for electronic music composition.
- Effectively edit and mix electronic compositions and studio recordings.
- Analyze the fundamental concepts of audio theory.
- Demonstrate proper etiquette and work ethic appropriate to a professional audio environment.

Required courses for the major:			25.5 Units
MUS 10	Music Theory I	(C)	3
MUS 11	Musicianship I	(C)	1
MUS 20	Guitar I		1
or MUS 30	Voice I (1)		
or MUS 40	Piano I (1)		
MUS 51	Computer Literacy for Musicians		1.5
MUS 12	Music Theory II	(P/C)	3
MUS 13	Musicianship II	(P/C)	1
MUS 21	Guitar II	(P)	1
or MUS 31	Voice II (1)	(P)	
or MUS 41	Piano II (1)	(P)	
MUS 52	Introduction to Recording Techniques		3
MUS 53	Introduction to Recording Software Applications	(P)	3
MUS 54	Studio Recording I	(P)	4
MUS 55	Studio Recording II	(P)	4

Certificate of Achievement in Recording Arts — 25.5 Units

Program Code: 33182.00CA
Type: Career
GE: None

About the Program

See AS Degree in Recording Arts.

Gainful Employment Information
Certificate of Achievement in Recording Arts:

http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Make technically competent recordings of real instruments in a studio setting
- Utilize computer-based music software for electronic music composition
- Effectively edit and mix electronic compositions and studio recordings
- Analyze the fundamental concepts of audio theory
- Demonstrate proper etiquette and work ethic appropriate to a professional audio environment

Required courses for the certificate:

MUS 10	Music Theory I	(C)	3
MUS 11	Musicianship I	(C)	1
MUS 20	Guitar I		1
or MUS 30	Voice I (1)		
or MUS 40	Piano I (1)		
MUS 51	Computer Literacy for Musicians		1.5
MUS 12	Music Theory II	(P/C)	3
MUS 13	Musicianship II	(P/C)	1
MUS 21	Guitar II	(P)	1
or MUS 31	Voice II (1)	(P)	
or MUS 41	Piano II (1)	(P)	
MUS 52	Introduction to Recording Techniques		3
MUS 53	Introduction to Recording Software Applications	(P)	3
MUS 54	Studio Recording I	(P)	4
MUS 55	Studio Recording II	(P)	4

Certificate in Recording Arts for Musicians — 17.5 Units

Program Code: RECORDINGARTS.CC
Type: Career
GE: None

About the Program

A certificate in Recording Arts for Musicians provides students with fundamental knowledge and understanding of audio recording techniques and applications. Selected courses will enhance students ability to apply musical elements throughout the recording process. Students learn recording techniques and how to operate the equipment used in recording music. Courses include hands-on exposure to production processes such as tracking, overdubbing, mixing and mastering by participating in recording sessions.

The certificate prepares students for a variety of opportunities in today's ever-changing workplace. Careers include: Recording Engineer, Assistant Engineer, Runner, Technical Engineer, Studio Booking Technician, Studio Manager, Receptionist, Mastering Engineer, Producer, Audio/Visual Technician, Studio Owner, Information Technology Specialist and Customer Service Representative.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Analyze the signal flow within a typical recording studio.
- Plan and employ the use of digital mixing consoles for audio recording.
- Operate digital multitrack recorders, software recording applications and digital audio workstations.
- Compare and set up digital signal processing used for audio enhancement.
- Formulate and implement effective recording session techniques.

Required courses for the certificate:

MUS 10	Music Theory I	(C)	3
MUS 11	Musicianship I	(C)	1
MUS 51	Computer Literacy for Musicians		1.5
MUS 52	Introduction to Recording Techniques		3
MUS 53	Introduction to Recording Software Applications	(P)	3
MUS 54	Studio Recording I	(P)	4
Select 2 courses from the following:			2
MUS 20	Guitar I (1)		
MUS 30	Voice I (1)		
MUS 40	Piano I (1)		

Natural Resources (NR)

AS Degree in Natural Resources Management
Certificate in Ecological Restoration
Certificate in Forestry Technician
Certificate in Parks and Recreation
Certificate in Wildlife Technician

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To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Natural Resources Management

60 Units Minimum

Program Code: 07259.01AS
Type: Career
GE: Butte Local

About the Program

The Natural Resources program is designed to meet the demand for trained personnel in a broad range of Natural Resource/Environmental Science fields in addition to numerous private organizations.

Intense pressures are being placed on the nation's environmental resources as the population increases. This creates an ever-growing demand for trained people to work in forestry, recreation, water, soil, wildlife and other natural resource/environmental management areas. Career opportunities exist with the U.S. Forest Service, Bureau of Land Management, Bureau of Reclamation, California Department of Fish and Wildlife, National Park Service, and U.S. Soil Service as well as numerous private management firms, environmental companies, and land developers, to list a few job possibilities. Employment in any of these areas will provide an opportunity for working in one of the nation's most interesting, diversified and rapidly expanding fields. The work is varied. However, certain basic skills are fundamental.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe and apply the basic elements of the scientific method.
- Identify basic environmental problems and describe how they affect the environmental's biotic and abiotic components.
- Identify the main fish and game species located within the state and/or region of desired employment.
- Evaluate the modern and historical roles of human impact on wildlife and wildlife management.

Required courses for the major: **39 Units**

AB 20	Careers in Agriculture, Environmental Science and Natural Resources	1
AET 30	Tractors and Crawlers	3
AGS 50	General Soils	4
AGS 20	Plant Science	3
NR 12	Dendrology/Native Plant Identification	3
NR 20	Introduction to Forestry and Natural Resources	3
NR 26	Environmental World	3
NR 28	Environmental Management	3
NR 40	Watershed Ecology and Habitat Restoration	3
NR 55	Wildlife Management	3
NR 60	Natural Resources Law	3
NR 65	Recreational Land Management	3
NR 70	Geospatial Data Applications	2
NR 99	Work Experience-NR (P)	2

Certificate in Ecological Restoration

17 Units

Program Code: ECOLOGICALREST.CC
Type: Career
GE: None

About the Program

The courses required for this certificate provide desired basic skills by the industry. Students who complete the requirements for this certificate will have the basic skills necessary for entry-level employment in the ecological restoration industry. Students taking these courses will have an enhanced ability in operating heavy equipment, management of recreational lands, surveying landscapes and utilizing GPS and GIS systems to create and read maps of work areas, and installation and maintenance of irrigation systems. Students may return and take the courses required for the certificate to stay current in their field or obtain promotions.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify the biologic and economic need for restoring and maintaining ecosystem health in California.
- Demonstrate proper use of topographical maps, assessments, hand tools and equipment commonly used by ecological restorationists.
- List and discuss wetland and upland habitat restoration techniques using native plants and various irrigation methods.
- Examine and report the procedures required by law for the purpose of mitigating damage to the environment by industry.
- Estimate cut and fill for a surveyed tract, operate wheel and track type tractors safely and properly, and perform operator level maintenance and adjustment of tractor systems.
- Read and interpret basic irrigation designs and identify and troubleshoot irrigation problems with sprinklers, valves and controllers, then make the necessary repairs or replacements.

Required courses for the certificate:

NR 40	Watershed Ecology and Habitat Restoration	3
NR 60	Natural Resources Law	3
NR 70	Geospatial Data Applications	2
AET 26	Basic Surveying	3
AET 30	Tractors and Crawlers	3
EH 30	Irrigation Practices and Materials	3

Certificate in Forestry Technician

17 Units

Program Code: FORESTRYTECH.CC
Type: Career
GE: None

About the Program

The Forestry Technician certificate curriculum is designed to meet the demand for trained personnel in the fields of forestry and silviculture for multiple agencies and private timber companies.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify common tree and plant species in California and the western United States.
- Utilize tools for forest mensuration.
- Identify invasive weeds, pests and diseases common to trees and forests in California.
- Perform work in a greenhouse for the propagation of trees for replanting after a harvest or fire.

- Utilize GPS and GIS systems to create and read maps of work areas.

Required courses for the certificate:

NR 12	Dendrology/Native Plant Identification	3
NR 20	Introduction to Forestry and Natural Resources	3
NR 70	Geospatial Data Applications	2
AGS 30	Ecology of Insect and Disease Management	3
EH 38	Greenhouse Production	3
EH 62	Weed Science and Invasive Plants	3

Certificate in Parks and Recreation — 17 Units

Program Code: PARKSANDREC.CC
Type: Career
GE: None

About the Program

The courses for the certificate provide basic skills for the entry level position in park and recreational land management. Students taking these courses will have an enhanced ability in tree and tree pest species identification, operating maintenance and construction equipment, utilizing GPS and GIS systems to create and read maps of work areas, and managing land for recreational purposes. Students may return and take the courses required for the certificate to stay current in their field or obtain promotions.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Acquire and demonstrate background knowledge in outdoor recreation as it relates to career opportunities, educational requirements, qualifications and duties of field personnel.
- Evaluate recreation facilities and resources, identifying maintenance requirements, potential hazards, traffic, and people flow.
- Demonstrate manipulative skills related to hand tools, power equipment, and machines commonly used in recreational land management.
- Examine and report the procedures required by law for the purpose of mitigating damage to the environment by outdoor recreational activities.
- Compile information from GPS data, aerial and topographical maps to analyze and present spatial configurations of natural resources on recreational lands.

Required courses for the certificate:

NR 20	Introduction to Forestry and Natural Resources	3
NR 28	Environmental Management	3
NR 65	Recreational Land Management	3
NR 70	Geospatial Data Applications	2
AET 22	Natural Resources and Agri-Construction	3
AET 30	Tractors and Crawlers	3

Certificate in Wildlife Technician — 14 Units

Program Code: WILDLIFETECH.CC
Type: Career
GE: None

About the Program

The Wildlife Technician certificate is designed to meet the demand for trained personnel in the field of Wildlife and Fisheries Management for multiple agencies and private organizations. The courses for the certificate provide desired basic skills for the entry level position in wildlife area or refuge management. Students taking these courses will have an enhanced ability to identify wildlife and fish species, perform work on wildlife areas or habitat restoration sites, make decisions based on natural resource law, and utilize GPS and GIS systems to create and read maps of work areas. Students may return and take courses required for this certificate to stay current in their field or obtain promotions.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify major game and fish species in northern California.
- Assist in the capture, study, and management of wildlife.
- Perform maintenance, participate in research, and interact with the public on wildlife areas or refuges.
- Locate and analyze the federal and state acts, statutes and regulations which protect endangered species and other wildlife.
- Utilize GPS and GIS systems to create and read maps of work areas.

Required courses for the certificate:

NR 40	Watershed Ecology and Habitat Restoration	3
NR 55	Wildlife Management	3
NR 60	Natural Resources Law	3
NR 70	Geospatial Data Applications	2
AET 22	Natural Resources and Agri-Construction	3
or EH 22	Landscape Construction (3)	

Nursing (NSG)

AS Degree in Licensed Vocational Nursing
AS Degree in Registered Nursing
AS Degree in Registered Nursing: LVN to ADN
Certificate of Achievement in Licensed Vocational Nursing
Certificate of Achievement in Registered Nursing: LVN to ADN
Certificate in Acute Care Nurse Assistant
Certificate in Certified Nursing Assistant
Certificate in Home Health Aide

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To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Licensed Vocational Nursing — 60 Units Minimum

Program Code: 01340.00AS
Type: Career
GE: Butte Local

About the Program

The Licensed Vocational Nursing program is a state approved vocational program which provides the curriculum necessary for an individual to qualify for the state board examination for licensure as a vocational nurse. The curriculum includes prerequisite courses and the equivalent of three academic semesters of nursing theory and supervised clinical experiences.

The primary role of the licensed vocational nurse is to provide bedside nursing in a variety of clinical settings. The student will study common medical-surgical conditions, their origin, prevention and treatment emphasizing the related nursing care. To help the student provide "individualized" nursing care, other courses provide basic psychology and sociology concepts relevant to the development, motivation and reactions of people healthy and ill.

The rapidly growing need for skilled health personnel provides good employment opportunities for the Licensed Vocational Nurse. Positions are found in general and convalescent hospitals, physicians' offices, private homes, community health agencies and in industry.

Admission to the Program

Contact the Nursing Department or visit www.butte.edu/healthoccupations for application dates and materials. Nursing classes are limited in size. Admission to the program is based on academic and general requirements.

Applicants that have failed, more than once, from any nursing program (LVN and/or RN) are ineligible to apply.

Persons with substance abuse issues or with conviction of crimes substantially related to the practice of nursing may not be granted a license by the California Board of Vocational Nursing and Psychiatric Technicians. Fingerprints are a required part of the application for licensure. Records that are expunged or sealed, and juvenile records will be accessed and reviewed. For more information, please visit the following website: http://www.bvnpt.ca.gov/enforcement/enforcement_faq.shtml

The Nursing Department will not accept online labs for BIOL 20 Human Anatomy, or BIOL 21 Human Physiology.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Use the nursing process to provide nursing care to individual patients/clients and families throughout the life span.
- Demonstrate competency in the performance of technical nursing skills based on knowledge of nursing principles.
- Provide educational information for individual patients/clients, families, and groups to promote, achieve, or maintain a state of health.
- Initiate and maintain therapeutic communication with individual patients/clients and families.
- Demonstrate caring behaviors based on recognition of individual needs and cultural differences.
- Collaborate with other healthcare team members to provide optimum care.
- Demonstrate professional behaviors in the role of a Licensed Vocational Nurse.

Required courses for the major:			66 - 68 Units
Prerequisites Prior to Admission			
BIOL 20	Human Anatomy		4
BIOL 21	Human Physiology	(P)	4
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	
FN 50	Nutrition and Diet Therapy		4
or FN 2	Nutrition (3)		
MATH Competency			3
Program Sequence			
NSG 18	Fundamentals of Nursing	(P/C)	3
NSG 21	Clinical Nursing I	(P/C)	7
NSG 22	Gerontology Nursing	(P/C)	1
NSG 23	Pharmacology Nursing	(P/C)	3
NSG 24	Musculoskeletal Nursing	(P/C)	1
NSG 28	Role Development	(P/C)	1
NSG 31	Clinical Nursing II	(P/C)	7
NSG 32	Perioperative Nursing and Client Education	(P/C)	2
NSG 35	Cardiovascular and Respiratory Nursing	(P/C)	3
NSG 36	Gastrointestinal and Renal/Urinary Nursing	(P/C)	2
NSG 37	Endocrine Disorders	(P/C)	2
NSG 41	Clinical Nursing III	(P/C)	7
NSG 42	Maternal Child Nursing	(P/C)	2
NSG 43	Neurological and Rehabilitation Nursing	(P/C)	2
NSG 44	Psych/Mental Health Nursing	(P/C)	2
NSG 47	Oncology Nursing	(P/C)	2
NSG 49	Role Development and Vocational Relations/Leadership	(P/C)	2

AS Degree in Registered Nursing — 60 Units Minimum

Program Code: 14583.00AS
Type: Career
GE: Local AA/AS GE Pattern

About the Program

The two-year traditional Registered Nursing Associate Degree program prepares the student for licensure as an RN at the Associate Degree Nursing (ADN) level. The four-semester program provides theory and clinical content required for registered nursing licensure. Upon completion of the degree, the student will be eligible for the national/state licensure examination for registered nursing.
A registered nurse can seek employment in a variety of settings: acute care hospital, community/home health care, skilled and long term care, clinics, physician offices, and any number of private industries that interface with health care delivery. A national shortage of registered nurses is predicted for the next two decades.

Admission to the Program

Students are admitted by application only. Contact the Nursing Department or visit www.butte.edu/healthoccupations for application dates and materials. Admission to the program is based on academic and general requirements. In the event that there are more qualified candidates than spaces in the program, a computerized lottery will be used to select the individuals to be enrolled.

Requirements for Application and Admission: Age 17 years or older with a 12th grade education or equivalent.

Completion of all prerequisites courses (prerequisites may not be in progress at the time of application).

An overall grade point average (GPA) of 2.5 for Human anatomy, Human Physiology, and Microbiology courses, with no grade less that "C" for each course and no more than one repetition of one of these courses.

An overall GPA of 2.5 for all prerequisite courses.

A minimum 62% composite score on the TEAS V test (may be repeated once).

Applicants that have failed, more than once, from any nursing program (LVN and/or RN) are ineligible to apply.

Persons with substance abuse issues or with conviction of crimes substantially related to the practice of nursing may not be granted a license by the California Board of Registered Nursing. Fingerprints are a required part of the application for licensure. Records that are expunged or sealed, and juvenile records will be accessed and reviewed. For more information, please visit the following website: http://www.rn.ca.gov/pdfs/enforcement/discguide.pdf

The Nursing Department will not accept online labs for BIOL 20 Human Anatomy, BIOL 21 Human Physiology or BIOL 15 Introduction to Microbiology.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Adhere to standards of professional practice, and practice within legal, ethical and regulatory frameworks.
- Demonstrate effective verbal, non-verbal, and written communication using compassion and cultural awareness resulting in trusting relationships.
- Provide comprehensive assessments with a holistic view of the client using the functional health assessment.
- Demonstrate evidenced-based practice and the use of critical thinking based on the nursing process to provide the foundation for appropriate clinical decision making.
- Adapt care when providing nursing interventions to assist the clients in achieving desired outcomes.
- Develop individualized teaching plan based on assessed needs.
- Demonstrate decision-making coordination with the client, significant support person(s), and members of the healthcare team.
- Demonstrate effective management through gathering information, planning, and directing in collaboration with the health care team to assist the client to move toward positive outcomes in an efficient and cost effective manner.

Required courses for the major: 85 - 87 Units

Prerequisites Prior to Admission			
BIOL 20	Human Anatomy		4
BIOL 21	Human Physiology	(P)	4
BIOL 15	Introduction to Microbiology	(P)	5
FN 2	Nutrition		3
or FN 50	Nutrition and Diet Therapy (4)		
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	
MATH Competency			3
PSY 1	Principles of Psychology		3
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
or CMST 4	Small Group Communication (3)		
or CMST 10	Interpersonal Communication (3)		
Other Required Courses			
(May be taken prior to or concurrently with the first year of program)			
Humanities GE Requirement for an AS Degree			3
ANTH 4	Cultural Anthropology		3
or SOC 2	Principles of Sociology (3)		
or SOC 4	Modern Social Problems (3)		
Program Sequence			
NSG 54	Foundations of Practice	(P/C)	3
NSG 55	Medical Surgical Nursing I	(P/C)	4
NSG 56	Clinical Nursing I	(P/C)	5
NSG 60	Maternity Nursing	(P/C)	2
NSG 62	Medical-Surgical Nursing II	(P/C)	4
NSG 66	Clinical Nursing II	(P/C)	5
NSG 63	Pediatric Nursing	(P/C)	2
NSG 67	Complex Medical/Surgical Nursing III	(P/C)	4
NSG 61	Pharmacology	(P/C)	2
NSG 68	Clinical Nursing III	(P/C)	5
NSG 69	Gerontology/Community Based Nursing	(P/C)	2
NSG 74	Associate Degree Nursing Capstone	(P/C)	2
NSG 77	Complex Medical/Surgical Nursing IV	(P/C)	4
NSG 78	Clinical Nursing IV	(P/C)	5
NSG 79	Mental Health/Psychiatric Nursing	(P/C)	2
Multicultural breadth requirement met by completion of program			

AS Degree in Registered Nursing: LVN to ADN

60 Units Minimum

Program Code: 01339.00AS
Type: Career
GE: Butte Local

About the Program

The AS in Registered Nursing: LVN to ADN program prepares LVNs for licensure as RNs at the Associate Degree level (ADN). Training as a vocational nurse and prerequisite courses count as the first year of a traditional two-year Associate Degree registered nursing program. The two semesters of clinical nursing provide the additional nursing content required for a registered nursing licensure.

Upon completion of the program the student will be eligible for the national/state licensure examination for registered nurses. A registered nurse can seek employment in a variety of settings: acute hospital care, community/home health care, skilled and long term care, clinics, physician's offices, as well as private industries that interface with health care delivery. A national shortage of registered nurses is predicted for the next two decades.

Admission to the Program

Students are admitted by application only. Contact the Nursing Department or visit www.butte.edu/healthoccupations for application dates and materials. Admission to the program is based on academic and general requirements.

Requirements for Application and Admission: Age 17 years or older with a 12th grade education or equivalent.

Current California licensure as a vocational nurse.

Completion of an approved IV Therapy course.

Minimum of 16 units of college level nursing credit including OB and Pediatric Nursing from a vocational or practical nursing program. (Transcripts must include OB and Pediatric courses that were successfully completed from a vocational or practical nursing program (or an alternative means of satisfying this requirement approved by the Department Chair).

Completion of all prerequisite courses (except for NSG 64 and NSG 65) at the time of application.

An overall grade point average (GPA) of 2.5 for Human Anatomy, Human Physiology, and Microbiology courses, with no grade less than "C" for each course and no more than one repetition of one of these courses.

An overall GPA of 2.5 for all prerequisite courses, A minimum 62% composite score on the TEAS V test (may be repeated once).

Applicants that have failed, more than once, from any nursing program (LVN and/or RN) are ineligible to apply.

Persons with substance abuse issues or with conviction of crimes substantially related to the practice of nursing may not be granted a license by the California Board of Registered Nursing. Fingerprints are a required part of the application for licensure. Records that are expunged or sealed, and juvenile records will be accessed and reviewed. For more information, please visit the following website: http://www.rn.ca.gov/pdfs/enforcement/discguide.pdf

The Nursing Department will not accept online labs for BIOL 20 Human Anatomy, BIOL 21 Human Physiology or BIOL 15 Introduction to Microbiology.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Adhere to standards of professional practice, and practice within legal, ethical and regulatory frameworks.
- Demonstrate effective verbal, non-verbal, and written communication using compassion and cultural awareness resulting in trusting relationships.
- Provide comprehensive assessments with a holistic view of the client using the functional health assessment.
- Demonstrate evidenced-based practice and the use of critical thinking based on the nursing process to provide the foundation for appropriate clinical decision making.
- Adapt care when providing nursing interventions to assist the clients in achieving desired outcomes.
- Develop individualized teaching plan based on assessed needs.
- Demonstrate decision-making coordination with the client, significant support person(s), and members of the healthcare team.
- Demonstrate effective management through gathering information, planning, and directing in collaboration with the health care team to assist the client to move toward positive outcomes in an efficient and cost effective manner.

Required courses for the major:			**61 - 62 Units**
Prerequisite Courses			
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	
PSY 1	Principles of Psychology		3
MATH Competency			3
BIOL 15	Introduction to Microbiology	(P)	5
BIOL 20	Human Anatomy		4
BIOL 21	Human Physiology	(P)	4
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
or CMST 4	Small Group Communication (3)		
or CMST 10	Interpersonal Communication (3)		
NSG 64	Transition to ADN Nursing I	(P)	1
NSG 65	Transition to ADN Nursing II	(P)	3
Other Required Courses			
(May be taken prior to or concurrently with the first year of the program)			
Humanities General Education Requirement			3
ANTH 4	Cultural Anthropology		3
or SOC 2	Principles of Sociology (3)		
or SOC 4	Modern Social Problems (3)		
Multicultural breadth requirement met by completion of program			
Program Sequence			
NSG 67	Complex Medical/Surgical Nursing III	(P/C)	4
NSG 68	Clinical Nursing III	(P/C)	5
NSG 69	Gerontology/Community Based Nursing	(P/C)	2
NSG 74	Associate Degree Nursing Capstone	(P/C)	2
NSG 77	Complex Medical/Surgical Nursing IV	(P/C)	4
NSG 78	Clinical Nursing IV	(P/C)	5
NSG 79	Mental Health/Psychiatric Nursing	(P/C)	2
NSG 61	Pharmacology	(P/C)	2

Certificate of Achievement in Licensed Vocational Nursing

67 - 68 Units

Program Code: 01340.00CA
Type: Career
GE: None

About the Program

See AS Degree in Licensed Vocational Nursing.

Gainful Employment Information
Certificate of Achievement in Licensed Vocational Nursing:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Use the nursing process to provide nursing care to individual patients/clients and families throughout the life span.
- Demonstrate competency in the performance of technical nursing skills based on knowledge of nursing principles.
- Provide educational information for individual patients/clients, families, and groups to promote, achieve, or maintain a state of health.
- Initiate and maintain therapeutic communication with individual patients/clients and families.
- Demonstrate caring behaviors based on recognition of individual needs and cultural differences.
- Collaborate with other healthcare team members to provide optimum care.
- Demonstrate professional behaviors in the role of a Licensed Vocational Nurse.

Required courses for the certificate:

Prerequisites Prior to Admission			
BIOL 20	Human Anatomy		4
BIOL 21	Human Physiology	(P)	4
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	
FN 50	Nutrition and Diet Therapy		4
or FN 2	Nutrition (3)		
MATH Competency			3
Program Sequence			
NSG 18	Fundamentals of Nursing	(P/C)	3
NSG 21	Clinical Nursing I	(P/C)	7
NSG 22	Gerontology Nursing	(P/C)	1
NSG 23	Pharmacology Nursing	(P/C)	3
NSG 24	Musculoskeletal Nursing	(P/C)	1
NSG 28	Role Development	(P/C)	1
NSG 31	Clinical Nursing II	(P/C)	7
NSG 32	Perioperative Nursing and Client Education	(P/C)	2
NSG 35	Cardiovascular and Respiratory Nursing	(P/C)	3
NSG 36	Gastrointestinal and Renal/Urinary Nursing	(P/C)	2
NSG 37	Endocrine Disorders	(P/C)	2
NSG 41	Clinical Nursing III	(P/C)	7
NSG 42	Maternal Child Nursing	(P/C)	2
NSG 43	Neurological and Rehabilitation Nursing	(P/C)	2
NSG 44	Psych/Mental Health Nursing	(P/C)	2
NSG 47	Oncology Nursing	(P/C)	2
NSG 49	Role Development and Vocational Relations/Leadership	(P/C)	2

Certificate of Achievement in Registered Nursing: LVN to ADN

30 Units

Program Code: 20005.00CA
Type: Career
GE: None

About the Program

See AS Degree in Registered Nursing: LVN to ADN.

Gainful Employment Information
Certificate of Achievement in Registered Nursing: LVN to ADN:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Adhere to standards of professional practice, and practice within legal, ethical and regulatory frameworks.
- Demonstrate effective verbal, non-verbal, and written communication using compassion and cultural awareness resulting in trusting relationships.
- Provide comprehensive assessments with a holistic view of the client using the functional health assessment.
- Demonstrate evidenced-based practice and the use of critical thinking based on the nursing process to provide the foundation for appropriate clinical decision making.
- Adapt care when providing nursing interventions to assist the clients in achieving desired outcomes.
- Develop individualized teaching plan based on assessed needs.
- Demonstrate decision-making coordination with the client, significant support person(s), and members of the healthcare team.
- Demonstrate effective management through gathering information, planning, and directing in collaboration with the health care team to assist the client to move toward positive outcomes in an efficient and cost effective manner.

Required courses for the certificate:

Eligibility for Licensure for Non-Degree Students:

A 30-unit option is available for LVNs who wish eligibility for the California Board of Registered Nursing Licensure Examination but who do not wish to complete the Associate Degree Nursing Program. General and Academic Requirements for this option are limited to: Current California LVN Licensure, Successful completion of BIOL 15 and BIOL 21 or equivalent courses. Students interested in this option should request further information and application materials from the Nursing Department Office

BIOL 15	Introduction to Microbiology	(P)	5
BIOL 21	Human Physiology	(P)	4
NSG 64	Transition to ADN Nursing I	(P)	1
NSG 68	Clinical Nursing III	(P/C)	5
NSG 69	Gerontology/Community Based Nursing	(P/C)	2
NSG 74	Associate Degree Nursing Capstone	(P/C)	2
NSG 78	Clinical Nursing IV	(P/C)	5
NSG 79	Mental Health/Psychiatric Nursing	(P/C)	2
NSG 88	Med/Surg III (30 Unit Option)	(P/C)	2
NSG 89	Med/Surg IV (30 Unit Option)	(P/C)	2

Certificate in Acute Care Nurse Assistant

4 Units

Program Code: ACUTENURSEASSIST.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the limitations of the acute care nurse assistant with respect to the Scope of Practice guidelines.
- Practice effective communication and documentation skills in the acute care setting.
- Describe knowledge and understanding of a safe and secure environment for patients in the acute care setting. This includes ensuring the patient's room is free of hazards that might impede mobility and safety, as well as the provision of physical comfort.
- Demonstrate and practice safe and effective care of the surgical patient.
- Collaborate with nursing staff to formulate an appropriate plan of care for the patient with disorder of the major body systems: gastrointestinal, renal, reproductive, endocrine, cardiovascular, and respiratory.
- Identify and follow proper procedures for providing appropriate care for the orthopedic, oncology, pediatric and/or dying patient.

Required courses for the certificate:

NSG 102	CNA Acute Care	(P)	4

Certificate in Certified Nursing Assistant

6.5 Units

Program Code: NURSINGASST.CC
Type: Career
GE: None

About the Program

The Certified Nursing Assistant/Home Health Aide program is designed to prepare students for state certification as a Nursing Assistant. Successful completion of the program makes students eligible to take the written and manual skills test for state certification. The rapidly growing need for skilled health personnel provides good employment opportunities for Certified Nursing Assistants and Home Health Aides. Positions are found in general and convalescent hospitals, physicans' offices, private homes, community health agencies and in industry.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe and provide safe and competent personal care and procedures to clients in a long-term care setting.
- Apply safety, cleanliness and infection control nursing measures.
- Utilize professional and therapeutic communication techniques and prepare complete and correct documentation of care delivered.
- Identify and apply legal and ethical principles related to the role of the nursing assistant and the rights of residents.
- Describe quality of life issues, common long-term diseases/conditions, and related nursing care and rehabilitation techniques.
- Describe basic principles of nutrition and types of therapeutic diets.
- Correctly calculate mathematical problems related to the CNA nursing role and care.

Required courses for the certificate:

NSG 100	CNA Basic Nursing Care, Theory	(P/C)	3.5
NSG 101	CNA Basic Nursing Care, Clinical	(P/C)	3

Certificate in Home Health Aide

1.5 Units

Program Code: HOMEHLTHAIDE.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe and provide safe and competent personal care, procedures and interventions to clients in a home care setting.
- Apply safety, cleanliness and infection control nursing measures in the home care setting.
- Utilize professional and therapeutic communication techniques and prepare complete and correct documentation of care delivered in the home care setting.
- Identify and apply legal and ethical principals related to the role of the nursing assistant and the rights of residents in home care settings.
- Describe quality of life issues, the impact of common long-term diseases/conditions, and related nursing care and rehabilitation techniques utilized in the home care setting.

- Describe basic principles of nutrition, food selection, storage, and planning/ preparation of different types of therapeutic diets for the home care setting.
- Correctly calculate mathematical problems related to the CNA nursing role and care in the home care setting.

Required courses for the certificate:

NSG 103	Home Health Aide for the CNA	(P)	1.5

Occupational and Life Skills (OLS)

Noncredit Certificate of Completion in Occupational and Life Skills

Julie Nuzum, Program Coordinator (530) 879-4354
Department Office: Special Programs, (530) 893-7726
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

Noncredit Certificate of Completion in Occupational and Life Skills

0 Units

Program Code: NONCREDITOLS.CC
Type: Local
GE: None

About the Program

The focus of the Occupational and Life Skills Program is to prepare students for community integrated employment. The two separate levels of certification may be obtained through an occupation specific certification and a Butte College Certificate of Completion. Students who successfully complete the program will have proof of competencies through these certifications presented to potential employers. This certificate program requires successful completion of 6 courses in the OLS sequence.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and assess safety hazards in the workplace.
- Demonstrate appropriate professional conduct.
- Apply comprehension and writing strategies when confronted with workplace documentation.
- Recognize and apply for compatible job opportunities relative to their occupation-specific certification.
- Organize and accomplish tasks for completion, adhering to deadlines.
- Determine amounts of money, temperature readings, volumes, and other measurements required for some occupations.

Required courses for the certificate:

OLS 324	Workplace Communication	
OLS 325	Literacy for Career Building	
OLS 326	Mathematics within Industry	
OLS 327	Career Exploration	(P)
OLS 328	Strategies for Employment	(P)
OLS 329	Occupational Certification Workshop	(P)

Photography (PHO)

AS Degree in Photography
Certificate in Professional Photography

Daniel Donnelly, Chair (530) 895-2880
Department Office: ARTS 224, (530) 895-2404
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Photography — 60 Units Minimum

Program Code: 01334.00AS
Type: Career
GE: Butte Local

About the Program

The Photography program provides students with a working knowledge of black-and-white and color photography, and fundamental laboratory and technical skills required for entry-level employment. The curriculum is designed to teach students to become independent professional photographers or to work as technician/photographers for others. Photography is a two-year Associate Degree program.

Photography is used in virtually every field in this media-conscious age. Public relations and advertising firms, newspapers, magazines and the fashion industry are among the more traditional employers. Camera and lab skills also are required for portraiture, wedding and scientific photography. Staff photographers are employed by industrial and architectural firms, hospitals, telecommunication and record companies, galleries and schools, as well as state agencies. Photographers also are needed for aerial surveying for land and/or agricultural development projects. Working photographers encounter challenges requiring their technical skills and artistic innovation. Jobs involve scheduling photographic assignments for a variety of clients.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Execute technical, aesthetic, and conceptual decisions based on an understanding of art and design principles.
- Produce photographs suitable for seeking career opportunities in photography.
- Solve creative problems in photography, including research and synthesis of technical, aesthetic, and conceptual knowledge.
- Communicate photography concepts to specific audiences using proper visual, oral, and written presentation skills.
- Evaluate photographic works, including their own, using professional terminology.

Required courses for the major: — **29 Units**

PHO 1	History of Photography		3
PHO 2	Introduction to Photography		3
PHO 4	Color Photography	(P)	3
PHO 6	Black and White Photography	(P)	3
PHO 8	Commercial Photography	(P)	3
PHO 11	Alternative Photographic Processes	(P)	3
PHO 14	Introduction to Photographic Portfolios and Books	(P)	3
PHO 15	Introduction to Adobe Lightroom		3
PHO 20	Photoshop for Photographers		3
PHO 99	Work Experience-PHO	(P)	2

Certificate in Professional Photography — 12 Units

Program Code: PROFESSIONALPHOTO.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate the safe use of photographic equipment in the studio and on location.
- Produce photographic images for a variety of applications including industrial, medical, product display, architectural, portrait, food and fashion modeling.
- Use computer software to edit and enhance photographic images for a variety of media including magazines, newspapers, brochures, television, and the internet.
- Produce a selection of photographic images for a professional resume.

Required courses for the certificate:

PHO 2	Introduction to Photography		3
PHO 4	Color Photography	(P)	3
PHO 8	Commercial Photography	(P)	3
PHO 15	Introduction to Adobe Lightroom		3

Physics (PHYS)

AS-T Degree in Physics
AS Degree in Physics

Jason Trento, Chair (530) 879-4305
Department Office: TE 132, (530) 879-6106
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Physics

60 Units Minimum

Program Code: 31950.00AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate conceptual understanding by being able to describe qualitatively the underlying causes of basic physical phenomena.
- Demonstrate analytical skills by interpreting graphs and schematics and diagnosing realistic physical problems.
- Demonstrate experimental knowledge through data gathering, judging the accuracy and reliability of data, creating informative graphs, and discussing the limitations of experimental designs.

Required courses for the major: **25 Units**

Required Core:

PHYS 41	Physics for Scientists and Engineers I	(P)	4
PHYS 42	Physics for Scientists and Engineers II	(P)	4
PHYS 43	Physics for Scientists and Engineers III	(P)	4
MATH 30	Analytic Geometry and Calculus I	(P)	5
MATH 31	Analytic Geometry and Calculus II	(P)	4
MATH 32	Analytic Geometry and Calculus III	(P)	4

AS Degree in Physics

60 Units Minimum

Program Code: 01357.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

The Associate in Science in Physics is intended for students who plan to continue on to a University and major in Physics or related discipline. Physics is the fundamental study of the relationships that exist among time, space, motion, matter and energy that serves as both a living and evolving record of humanity's understanding of the physical universe from the sub-atomic to the super-galactic as well as a coherent, time-tested compendium of strategies for mathematically modeling and analyzing physical systems.

Roughly 50% of students who receive physics bachelor's degrees go directly into the workforce after graduation while the rest continue onto graduate school (which is often tuition free for US citizens). Physics bachelor degree careers are wide ranging and include High School Physics Teachers, Government Funded Laboratory technicians and Private Sector jobs often working the same computer science and engineering jobs as graduates in those fields with average salaries markedly above jobs from non-technical fields. Students are encouraged to contact one of our 4 full-time physics instructors to discuss possible futures in physics. Physics is an abstract and mathematically demanding field. Beginning the AS Degree requires the student have the required prerequisites to enter into college level calculus. Many students have begun focused math studies well below calculus-level at Butte College, succeeded in physics and been successful in receiving advanced degrees.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate basic experimental knowledge through data gathering, judging the accuracy and reliability of data, creating informative graphs, and discussing the limitations of experimental designs.
- Demonstrate basic analytical skills by interpreting graphs and schematics and diagnosing realistic physical problems.
- Demonstrate conceptual understanding by being able to describe qualitatively the underlying causes of basic physical phenomena.

Required courses for the major: **39 Units**

CHEM 1	General Chemistry I	(P)	5
CHEM 2	General Chemistry II	(P)	5
MATH 30	Analytic Geometry and Calculus I	(P)	5
MATH 31	Analytic Geometry and Calculus II	(P)	4
MATH 32	Analytic Geometry and Calculus III	(P)	4
MATH 40	Differential Equations	(P)	4
PHYS 41	Physics for Scientists and Engineers I	(P)	4
PHYS 42	Physics for Scientists and Engineers II	(P)	4
PHYS 43	Physics for Scientists and Engineers III	(P)	4

Political Science (POS)

AA-T Degree in Political Science
Certificate in Leadership and Civic Engagement

Randy Cousineau, Chair (530) 895-2492
Department Office: LRC 304, (530) 895-2471
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Political Science — 60 Units Minimum

Program Code: 31939.01AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Students who earn either the AA-T in Political Science usually transfer to a CSU or UC. Many students decide to obtain a degree in political science for law school preparation. Other political science majors go on to pursue careers in local government, as legislative aides, with non-profits, in civil service or bureaucratic work, etc. See the American Political Science Association webpage for more information. http://www.apsanet.org/PScareers

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify major aspects of governmental systems of the United States, for individual states (especially California), and compare governmental systems on a global basis.
- Place various governmental systems within a developmental/historical framework. Methods of description, analysis, and theory will also be important factors for students who select Political Science as their major.

Required courses for the major: **18 - 19 Units**

Required Core:			
POS 2	United States Government		3
List A: Select three			
POS 3	Comparative Politics		3
POS 18	International Relations		3
MATH 18	Introduction to Statistics	(P)	4
List B: Select two			
POS 12	California State and Local Government		3
POS 16	Vital Political Problems		3
HIST 20	Political History of the Middle East		3

Certificate in Leadership and Civic Engagement — 13 Units

Program Code: LEADERSHIP.CC
Type: Local
GE: None

About the Program

The Certificate in Leadership and Civic Engagement will give students a foundation and hands-on experience in leadership theory and civic engagement activities. The courses focus on the themes of understanding self, understanding others, working in teams, civic engagement, and social and global responsibility and are applicable to all areas of study and careers. Students will have the opportunity to seek out and perform in leadership positions throughout the program and will participate in a monthly cohort. If you are interested in this program please contact Kelly Munson (530) 895-2945.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the history and current trends of leadership and civic engagement theories and models.
- Identify the steps and demonstrate skills necessary to plan, implement and lead civic engagement projects.
- Perform in leadership positions on campus or in the community.
- Articulate a personal awareness of their own strengths, deficits, and areas for growth as a leader.

Required courses for the certificate:

POS 92	Exploring Leadership	3
IDST 94	Introduction to Service Learning	1
LM 40	Life Management	3
or PSY 20	Personal and Social Growth and Wellness (3)	
Select 2 courses from the following:		6
CMST 2	Public Speaking (3)	
or CMST 2H	Honors Public Speaking (3)	
CMST 4	Small Group Communication (3)	
CMST 9	Intercultural Communication (3)	
ANTH 18	World Cultures (3)	
PHIL 5	Environmental Ethics (3)	
SOC 30	Sociology of Inequality (3)	
SOC 5	Our Sustainable Future (3)	

Physical Science (PSC)

AS Degree in Environmental Science
AS Degree in Physical Science

Jason Trento, Chair (530) 879-4305
Department Office: TE 132, (530) 879-6106
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Environmental Science — 60 Units Minimum

Program Code: 15151.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

The major promotes an understanding of basic operational principles underlying the biosphere and ecosystem through a transdisciplinary approach to understanding interaction between the biological and physical world and human institutions. Students will understand essential biological and physical processes, analyze human/environment interactions, understand different cultural perspectives on the environment, build critical thinking skills as the basis for decision making and sound value judgements, gain specialized analytical skills in at least one area of environmental science, build teamwork, leadership, conflict resolution skills, and develop effective communication skills.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Investigate and describe specific evidence used to construct individual scientific principles.
- Use scientific principles to explain well-established fundamental biological or physical phenomena and analyze their underlying components.
- Utilize scientific methodologies when solving a problem.
- Demonstrate knowledge of how human activities impact the physical and biological environments.
- Demonstrate knowledge of environmental policy-making, regulation, compliance, enforcement, and the collection of data from fieldwork.

Required courses for the major: **25 - 34 Units**

Complete one emphasis			
Ecological Restoration Emphasis at CSU, Humboldt			
PSC 10	Introduction to Environmental Science		4
NR 28	Environmental Management		3
BIOL 41	Cell and Molecular Biology	(P)	5
BIOL 43	Ecology and Evolution	(P)	5
CHEM 51	Elementary Inorganic Chemistry	(P)	5
AGS 50	General Soils		4
Energy and Climate Emphasis at CSU, Humboldt			
PSC 10	Introduction to Environmental Science		4
NR 28	Environmental Management		3
BIOL 43	Ecology and Evolution	(P)	5
or BIOL 41	Cell and Molecular Biology (5)	(P)	
CHEM 51	Elementary Inorganic Chemistry	(P)	5
or CHEM 1	General Chemistry I (5)	(P)	
and CHEM 2	General Chemistry II (5)	(P)	
ECON 35	Introduction to Environmental Economics		3
MATH 30	Analytic Geometry and Calculus I	(P)	5
PHYS 21	College Physics I	(P)	4
PHYS 22	College Physics II	(P)	4
Environmental Policy Emphasis at CSU, Humboldt			
PSC 10	Introduction to Environmental Science		4
NR 28	Environmental Management		3
BIOL 43	Ecology and Evolution	(P)	5
or BIOL 41	Cell and Molecular Biology (5)	(P)	
ECON 35	Introduction to Environmental Economics		3
MATH 20	Trigonometry	(P)	3
MATH 26	College Algebra	(P)	4
MATH 18	Introduction to Statistics	(P)	4

AS Degree in Physical Science — 60 Units Minimum

Program Code: 01356.00AS
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Investigate and describe specific evidence used to construct individual scientific principles.
- Use scientific principles to explain well-established fundamental biological or physical phenomena and analyze their underlying components.
- Utilize scientific methodologies when solving a problem.
- Demonstrate knowledge of the interplay between the various physical sciences, how they align, and how they differ.
- Demonstrate how the physical sciences differ from the biological and social sciences.

Required courses for the major: **43 - 45 Units**

Geoscience: Physical Science Education Option at CSU, Chico			
CHEM 1	General Chemistry I	(P)	5
CHEM 2	General Chemistry II	(P)	5
GEOL 32	Physical Geology with Lab		4
GEOL 34	Historical Geology with Lab		4
MATH 13	Survey of Calculus	(P)	4
or MATH 30	Analytic Geometry and Calculus I (5)	(P)	
MATH 18	Introduction to Statistics	(P)	4
or MATH 31	Analytic Geometry and Calculus II (4)	(P)	
PHYS 21	College Physics I	(P)	4
and PHYS 22	College Physics II (4)	(P)	
or PHYS 41	Physics for Scientists and Engineers I (4)	(P)	
and PHYS 42	Physics for Scientists and Engineers II (4)	(P)	
CHEM 21	Organic Chemistry I	(P)	5
BIOL 1	Introduction to Biology		4
or BIOL 41	Cell and Molecular Biology (5)	(P)	

Psychology (PSY)

AA-T Degree in Psychology
Certificate of Achievement in Peace and Global Studies
Certificate in Peace and Global Studies

Heather Valle, Chair (530) 895-2553
Department Office: LRC 304, (530) 895-2471
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Psychology

60 Units Minimum

Program Code: 31422.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify the major concepts, theoretical perspectives, research methods, core empirical findings, and historic trends in psychology from diverse perspectives.
- Critically evaluate research reports and synthesize a body of research findings.
- Develop testable hypotheses and select appropriate research design to test hypotheses.

Required courses for the major: **19 - 20 Units**

Required Core:			
MATH 18	Introduction to Statistics	(P)	4
PSY 1	Principles of Psychology		3
PSY 7	Introduction to Research Methods in Psychology	(P)	3
List A: Select one			
BIOL 1	Introduction to Biology		4
BIOL 2	Introduction to Human Biology		3
PSY 3	Introduction to Biological Psychology	(P)	3
List B: Select one			
Any Course from List A not already used			
PSY 15	Lifespan Psychology		3
List C: Select one			
Any Course from List A or B not already used			
PSY 6	Abnormal Psychology		3
PSY 41	Socio-Cultural Context of Psychological Development		3

Certificate of Achievement in Peace and Global Studies

28 - 29 Units

Program Code: 18794.00CA
Type: Local
GE: None

About the Program

Peace and Global Studies is an integrated, multidisciplinary program offering students an opportunity to understand the root causes of human violence and peace. Peace and Global Studies examines social, political, religious, environmental ideologies and personal barriers that prevents peace. It offers skill sets for analyzing structural violence, cultivating non-violent communication, and developing peacemaking and peacebuilding strategies with others. Students acquire personal practices for building peace.

Peace and Global Studies strengthens any major working within human systems: business, nursing, law enforcement, social and cultural sciences, social justice, international relations, and education. This Certificate offers the opportunity to build skill sets to effectively promote inclusion, understanding, and to build peaceful connections inter-personally to international relations.

This Certificate will serve as a valuable adjunct to careers in: Psychological Counseling (School Psychology), International Relations, Political Science, Human Services (Health and Environmental Services), Domestic Emergency Services (Police, Fire, and Medical), NGO's, Human Rights Organizations, Business, Administration, and Education. Currently international corporations are seeking specialists with global knowledge and skill sets in conflict resolution and prevention through peacemaking and peace building.

Gainful Emplyment Information
Certificate of Achievement in Peace and Global Studies
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Define the many forms of violence that exist from with in one's mind to all levels of social construction.
- Interrelate direct violence to deeper structural issues.
- Recognize and articulate how core values, worldviews, and communication patterns shape cultural and individual identities.
- Identify and describe barriers to effective intercultural communication such as stereotyping, prejudice, and ethnocentrism.
- Evaluate the common problems that plague human societies and discuss remedies that would create more just and equitable societies on a global scale.
- Analyze and discuss the promotion of ethical living by enhancing personal integrity in daily life.
- Explain what it means to be a conscious, proactive global citizen.

Required courses for the certificate:

PSY 11	Peace Psychology		3
POS 92	Exploring Leadership		3
PSY 10	Peace and Global Studies Capstone		1
CMST 9	Intercultural Communication		3
POS 16	Vital Political Problems		3
PSY 34	Eastern Psychology: Traditions and Practices		3
or PSY 36	Psychology of Meditation and Mindfulness (3)		
Select 1 course from the following:			3
ANTH 4	Cultural Anthropology (3)		
ECON 2	Principles of Macroeconomics (3)	(P)	
POS 18	International Relations (3)		
SOC 5	Our Sustainable Future (3)		
Select 1 course from the following:			4
CHIN 1	First Semester Chinese (4)		
CHIN 2	Second Semester Chinese (4)	(P)	

FREN 1	First Semester French (4)		
FREN 2	Second Semester French (4)	(P)	
GERM 1	First Semester German (4)		
GERM 2	Second Semester German (4)	(P)	
GERM 3	Third Semester German (4)	(P)	
GERM 4	Fourth Semester German (4)	(P)	
ITAL 1	First Semester Italian (4)		
ITAL 2	Second Semester Italian (4)	(P)	
JPN 1	First Semester Japanese (4)		
JPN 2	Second Semester Japanese (4)	(P)	
JPN 3	Third Semester Japanese (4)	(P)	
JPN 4	Fourth Semester Japanese (4)	(P)	
ASL 1	American Sign Language I (4)		
ASL 2	American Sign Language II (4)	(P)	
SPAN 1	First Semester Spanish (4)		
SPAN 2	Second Semester Spanish (4)	(P)	
SPAN 3	Third Semester Spanish (4)	(P)	
SPAN 4	Fourth Semester Spanish (4)	(P)	
Select 1 course from the following:			3
HIST 6	Modern World History (3)		
ANTH 18	World Cultures (3)		
Select 1 course from the following:			3
ART 6	African, Oceanic, and Native American Art History Survey (3)		
ENGL 21	Mythology (3)		
ENGL 35	Cross-Cultural Film and Literature (3)		
PHIL 16	Western Religions (3)		
PHIL 18	Eastern Religions (3)		

Certificate in Peace and Global Studies — 16 Units

Program Code: PEACEGLOBAL.CC
Type: Local
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Define the many forms of violence that exist from within one's mind to all levels of social construction.
- Interrelate direct violence to deeper structural issues.
- Recognize and articulate how core values, worldviews, and communication patterns shape cultural and individual identities.
- Identify and describe barriers to effective intercultural communication such as stereotyping, prejudice, and ethnocentrism.
- Analyze and discuss the promotion of ethical living by enhancing personal integrity in daily life.

Required courses for the certificate:

PSY 11	Peace Psychology	3
PSY 10	Peace and Global Studies Capstone	1
PSY 34	Eastern Psychology: Traditions and Practices	3
or PSY 36	Psychology of Meditation and Mindfulness (3)	
POS 16	Vital Political Problems	3
or SOC 5	Our Sustainable Future (3)	
CMST 9	Intercultural Communication	3
POS 92	Exploring Leadership	3

Real Estate (RLS)

AS Degree in Real Estate
Certificate of Achievement in Real Estate
Certificate in Real Estate Appraisal
Certificate in Real Estate Sales

LaRee Hartman, Chair (530) 895-2207
Department Office: BE 116, (530) 895-2371
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Real Estate — 60 Units Minimum

Program Code: 01312.00AS
Type: Career
GE: Butte Local

About the Program

The Real Estate program is designed with two broad objectives. The first is to prepare beginning students for entry into the real estate field, and the second objective is to upgrade the knowledge and skills of real estate professionals.

Three options of study are offered: a one-year program leading to a Certificate of Achievement; a two-year program leading to an Associate Degree; and certificate programs helpful for students preparing for the California salesperson licensing exam and those considering careers as real estate appraisers. Courses are also available for individuals interested in increasing their awareness and skills in the technical aspects of real estate transactions. The successful real estate professional is a person who relates well with people and is a "self-starter."

The real estate industry offers many interesting areas of employment and specialization. Positions may be found in real estate sales, appraisal, property management, finance, land development and consulting. A license is required of all real estate salespeople. In addition, a salesperson must work under the supervision of a licensed broker.

Minimum requirements to apply for the Salesperson Examination are: Age: 18 or older; Education: Evidence of successful completion of nine units of college level courses in Real Estate Principles, Practices, and one elective is required. Honesty: A felony conviction may result in the denial of a license. To qualify to take the State Examination for a broker's license a total of eight courses are required.

Student interested in careers in Real Estate should ensure that they check relevant websites for information about licensing requirements: the California Department of Real Estate (www.dre.ca.gov) and the California Office of Real Estate Appraisers (www.orea.ca.gov)

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and explain real estate concepts and principles.
- Create a Competitive Market Analysis for a Real Estate property so that they can evaluate properties based on factual data.
- Analyze legal contracts associated with real estate transactions, and identify and explain their uses, components and implications.

Required courses for the major: **39 - 40 Units**

ACCT 20	Introduction to Accounting		3
or ACCT 2	Financial Accounting (4)		
BUS 25	Small Business Management		3
BUS 50	Sales in Today's World		3
RLS 30	Legal Aspects of Real Estate	(P)	3
BCIS 18	Introduction to Business Technology		3
or CSCI 2	Business and Computer Information Systems (3)		
RLS 20	Real Estate Principles		3
RLS 25	Real Estate Practices	(P)	3
RLS 35	Real Estate Appraisal	(P)	3
RLS 40	Real Estate Finance	(P)	3
RLS 45	Real Estate Economics	(P)	3
or ECON 2	Principles of Macroeconomics (3)	(P)	
RLS 50	Escrow Procedures	(P)	3
RLS 55	Property Management	(P)	3
RLS 60	Real Estate Mortgage Brokerage	(P)	3

Certificate of Achievement in Real Estate — 24 - 25 Units

Program Code: 01312.00CA
Type: Career
GE: None

About the Program

See AS Degree in Real Estate.

Gainful Employment Information
Certificate of Achievement in Real Estate:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify and explain real estate concepts and principles.
- Create a Competitive Market Analysis for a Real Estate property so that they can evaluate properties based on factual data.
- Analyze legal contracts associated with real estate transactions, and identify and explain their uses, components and implications.

Required courses for the certificate:

RLS 20	Real Estate Principles		3
RLS 25	Real Estate Practices	(P)	3
BUS 35	Management and Human Relations		3
RLS 40	Real Estate Finance	(P)	3
or RLS 45	Real Estate Economics (3)	(P)	
BUS 50	Sales in Today's World		3
RLS 30	Legal Aspects of Real Estate	(P)	3
BCIS 18	Introduction to Business Technology		3
or CSCI 2	Business and Computer Information Systems (3)		
ACCT 2	Financial Accounting		4
or ACCT 20	Introduction to Accounting (3)		

Certificate in Real Estate Appraisal — 15 Units

Program Code: REALESTATEAPP.CC
Type: Career
GE: None

About the Program

The certificate in Real Estate Appraisal is helpful for students considering careers as real estate appraisers. However, to obtain an appraiser's license, a bachelor degree is required. Courses are also available for individuals interested in increasing their awareness and skills in the technical aspects of real estate transactions.

The real estate industry offers many interesting areas of employment and specialization. Positions may be found in real estate sales, appraisal, property management, finance, land development and consulting. A real estate appraiser is authorized to estimate the value of residential and/or commercial property using various tools and techniques. To become a licensed real estate appraiser, students are required to hold a bachelor degree in addition to appraisal coursework and experience.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the purpose, steps and outcomes of the appraisal process.
- Utilize each of the traditional approaches (sales comparison, cost and income) to estimate market value for a particular residential property.
- Prepare an appraisal report for a particular residential property utilizing the Uniform Residential Appraisal Report (URAR) format.
- Identify and describe fundamental real estate concepts and principles.

Required courses for the certificate:

RLS 20	Real Estate Principles		3
RLS 30	Legal Aspects of Real Estate	(P)	3
or BUS 8	Legal Environment of Business (3)		
RLS 35	Real Estate Appraisal	(P)	3
RLS 45	Real Estate Economics	(P)	3
RLS 55	Property Management	(P)	3

Certificate in Real Estate Sales

15 Units

Program Code: REALESTATESALES.CC
Type: Career
GE: None

About the Program

The certificate in Real Estate Sales is helpful for students preparing for the California salesperson licensing exam. Courses are also available for individuals interested in increasing their awareness and skills in the technical aspects of real estate transactions.

The real estate industry offers many interesting areas of employment and specialization. Positions may be found in real estate sales, appraisal, property management, finance, land development and consulting. A license is required of all real estate salespeople. Real estate sales persons are responsible for the sale of land and property, who conduct real estate activities under the supervision of a license real estate broker.

Minimum requirements to apply for the Salesperson Examination are: Age: 18 or older; Education: Evidence of successful completion of nine units of college level courses in Real Estate Principles, Practices, and one elective is required. Honesty: A felony conviction may result in the denial of a license.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Prepare sales listings and sales contracts.
- Explain the process of transferring ownership of real estate including escrow procedure and legal documentation required.
- Identify and describe fundamental real estate concepts and principles.
- Explain the appraisal process and its impact on closing real estate transactions.

Required courses for the certificate:

RLS 20	Real Estate Principles		3
RLS 25	Real Estate Practices	(P)	3
RLS 35	Real Estate Appraisal	(P)	3
RLS 45	Real Estate Economics	(P)	3
RLS 50	Escrow Procedures	(P)	3

Respiratory Therapy (RT)

AS Degree in Respiratory Care
Certificate of Achievement in Respiratory Care

Donna Davis, Chair (530) 895-2827
Department Office: AHPS 215, (530) 873-7533
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Respiratory Care — 60 Units Minimum

Program Code: 01342.00AS
Type: Career
GE: Butte Local

About the Program

The Butte College Respiratory Care Program is accredited by the Commission on Accreditation for Respiratory Care (CoARC) (www.coarc.com).
Commission on Accreditation for Respiratory Care
1248 Harwood Road
Bedford, Texas 76021-4244
(817) 283-2835
The Respiratory Care program is designed to prepare students to become licensed Respiratory Care Practitioners in the state of California. In addition, the program prepares the successful graduate to participate in the Certified Respiratory Therapist (CRT) and Registered Respiratory Therapist (RRT) examinations administered by the National Board for Respiratory Care (NBRC).

Respiratory care practitioners are highly skilled allied health professionals involved in the therapy, management, rehabilitation, diagnostic evaluation and care of patients with deficiencies and abnormalities that affect the cardiopulmonary system. They are employed in a variety of health care settings, including hospitals, physician's offices, home health agencies, specialized care hospitals, medical equipment supply companies, diagnostic laboratories, and patients' homes. They may further specialize in such areas as adult critical care, neonatal or pediatric intensive care, pulmonary function testing, transport medicine, hyperbaric medicine, home care, management or education.

Graduates practicing in California are required to take a state licensure examination. *Note: A person convicted of any offense other than a minor traffic violation may not qualify to be licensed as a Respiratory Care Practitioner in California. Questions regarding this should be directed to the Respiratory Care Program Director.

Admission to the Program

Requirements for Admission: Age 17 years or older and all prerequisites completed (with a 'C' grade or better).

Prior to being officially admitted to the program students must pass a background check, drug screening, and physical exam, and verify their physical ability to perform the tasks required of a Respiratory Therapist.

Students are admitted by application only. Contact the Health Occupations office or visit www.butte.edu/healthoccupations for application dates and materials. Admission to the program is based on academic and general requirements. In the event that there are more qualified applicants than spaces in the program, a computerized lottery will be used to select the individuals to be enrolled.

Estimated expenses average about $4,500 - $5,000 for the entire program, including licensure. Financial aid may be available to qualified students.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate a solid professional and general medical knowledge base.
- Demonstrate self-direction and responsibility for his/her own actions.
- Display respect for beliefs and values of all persons regardless of cultural background, religion, age, or lifestyle.
- Accurately interpret pertinent clinical information from medical records and physical findings.
- Recommend appropriate therapeutic interventions based on physiological data and patient assessment data.
- Demonstrate sound clinical judgment and is proficient in the clinical skills required on the job.
- Competently perform the therapeutic procedures and modalities, and diagnostic procedures required on the job.
- Demonstrate efficient performance of an overall patient assessment.
- Demonstrate effective oral and communication skills.
- Exhibit ethical and professional manners, including timely and prepared entrance to clinic and contributing to a positive work environment.
- Function effectively as a member of the health care team, accepts supervision and works effectively with supervisory personnel.

Required courses for the major: 91 - 92 Units

Important Note: All courses, including major, prerequisites, General Education and Competencies, used to fulfill a requirement for this degree must be completed with a C grade or better.

Prerequisites for admission to the program			
CHEM 110	Introductory Chemistry		4
(or other college level CHEM course)			
MATH Competency			3
BIOL 15	Introduction to Microbiology	(P)	5
BIOL 20	Human Anatomy		4
BIOL 21	Human Physiology	(P)	4
Additional courses required for completion of the program			
The following courses may be taken prior to or during the program: however, completing any of these courses prior to admission will significantly reduce the student's workload while in the program.			
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	
PSY 1	Principles of Psychology		3
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
or CMST 4	Small Group Communication (3)		
ALH 6	The Critical Six Soft Skills in the Professional Healthcare Environment		3
GE Requirement-Area C: 3 Units			3
KIN Activity Courses: 2 courses			2
Program Sequence			
RT 110	Fundamentals of Respiratory Care	(P/C)	7
RT 115	Clinical Preparation for Respiratory Care	(P)	.5
RT 120	Concepts in Respiratory Care	(P/C)	7
RT 125	Introduction to Clinical Respiratory Care	(P/C)	5
RT 135	Fundamentals of Clinical Respiratory Care	(P)	3.5
RT 128	Respiratory Care Pharmacology	(P/C)	3
RT 140	Fundamentals of Intensive Respiratory Care	(P/C)	6
RT 142	Neonatal and Pediatric Respiratory Care	(P/C)	3
RT 145	Advanced Respiratory Care Procedures	(P/C)	5
RT 155	Respiratory Care Practicum I	(P)	2
RT 160	Respiratory Care Seminar II	(P/C)	4
RT 165	Respiratory Care Practicum II	(P/C)	8

Certificate of Achievement in Respiratory Care

91 - 92 Units

Program Code: 01342.00CA
Type: Career
GE: None

About the Program

See AS Degree in Respiratory Care

Gainful Employment Information
Certificate of Achievement in Respiratory Care
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate a solid professional and general medical knowledge base.
- Demonstrate self-direction and responsibility for his/her own actions.
- Display respect for beliefs and values of all persons regardless of cultural background, religion, age, or lifestyle.
- Accurately interpret pertinent clinical information from medical records and physical findings.
- Recommend appropriate therapeutic interventions based on physiological data and patient assessment data.
- Demonstrate sound clinical judgment and is proficient in the clinical skills required on the job.
- Competently perform the therapeutic procedures and modalities, and diagnostic procedures required on the job.
- Demonstrate efficient performance of an overall patient assessment.
- Demonstrate effective oral and communication skills.
- Exhibit ethical and professional manners, including timely and prepared entrance to clinic and contributing to a positive work environment.
- Function effectively as a member of the health care team, accepts supervision and works effectively with supervisory personnel.

Required courses for the certificate:

Important Note: All courses, including major, prerequisites, General Education and Competencies, used to fulfill a requirement for this degree must be completed with a C grade or better.

Prerequisites for admission to the program			
CHEM 110	Introductory Chemistry		4
(or other college level CHEM course)			
MATH Competency			3
BIOL 15	Introduction to Microbiology	(P)	5
BIOL 20	Human Anatomy		4
BIOL 21	Human Physiology	(P)	4
Additional course required for completion of the program			
The following courses may be taken prior to or during the program: however, completing any of these courses prior to admission will significantly reduce the student's workload while in the program.			
ENGL 2	Reading and Composition	(P)	3
or ENGL 3	Reading and Composition Intensive (4)	(P)	
PSY 1	Principles of Psychology		3
CMST 2	Public Speaking		3
or CMST 2H	Honors Public Speaking (3)		
or CMST 4	Small Group Communication (3)		
ALH 6	The Critical Six Soft Skills in the Professional Healthcare Environment		3
GE Requirement-Area C: 3 Units			3
KIN Activity Courses: 2 courses			2
Program Sequence			
RT 110	Fundamentals of Respiratory Care	(P/C)	7
RT 115	Clinical Preparation for Respiratory Care	(P)	.5
RT 120	Concepts in Respiratory Care	(P/C)	7
RT 125	Introduction to Clinical Respiratory Care	(P/C)	5
RT 128	Respiratory Care Pharmacology	(P/C)	3
RT 135	Fundamentals of Clinical Respiratory Care	(P)	3.5
RT 140	Fundamentals of Intensive Respiratory Care	(P/C)	6
RT 142	Neonatal and Pediatric Respiratory Care	(P/C)	3
RT 145	Advanced Respiratory Care Procedures	(P/C)	5
RT 155	Respiratory Care Practicum I	(P)	2
RT 160	Respiratory Care Seminar II	(P/C)	4
RT 165	Respiratory Care Practicum II	(P/C)	8

Radio-TV-Film (RTVF)

AS-T Degree in Film, Television and Electronic Media
AS Degree in Radio-TV-Film: Video Production
Certificate of Achievement in Radio-TV-Film: Video Production
Certificate in Mass Media Studies
Certificate in Single Camera Video Production

Daniel Donnelly, Chair (530) 895-2880
Department Office: ARTS 224, (530) 895-2404
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS-T Degree in Film, Television and Electronic Media

60 Units Minimum

Program Code: 35684.01AS-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the history, processes and current structure of electronic media, its ethical parameters, and the social and political effects of electronic and mass communication on an audience.
- Write effectively for a variety of platforms appropriate to the discipline.
- Gather, organize and analyze discipline-appropriate research and communicate information about it.
- Identify and analyze legal and ethical principles relating to media.
- Apply media technology, terminology and techniques to the design and creation of content for film, television, and electronic media.

Required courses for the major:		18 Units
Required Core:		
RTVF 12	Mass Media and Society	3
RTVF 14	Introduction to Media Writing	3
List A: (6 units)		
RTVF 30	Digital Audio Production	3
RTVF 40	Digital Video Production	3
List B: (3 units)		
ART 1	Art Appreciation	3
ART 2	Art History Survey I	3
or ART 2H	Honors Art History Survey I (3)	
ART 4	Art History Survey II	3
or ART 4H	Honors Art History Survey II (3)	
DRAM 2	Theatre Arts Appreciation	3
JOUR 2	Introduction to Reporting and Newswriting	3
PHO 2	Introduction to Photography	3
List C: (3 units)		
Any course not already used above		
RTVF 13	Exploring Contemporary Television	3
RTVF 15	Introduction to Film	3
RTVF 55	Music Video Production	3

AS Degree in Radio-TV-Film: Video Production

60 Units Minimum

Program Code: 07474.01AS
Type: Career
GE: Butte Local

About the Program

To develop the media skills needed for a career, students will have access to a professional video production studio, digital video editing systems, and an audio production facility. Butte students can develop excellent skills in as little as one year of training. Many RTVF courses at Butte College will provide a basis for various media majors at other colleges and universities.

The world of electronic communication is exploding across the country from the smallest elementary classroom to international corporations and government agencies, creating careers in computers, satellite teleconferencing, the Internet, interactive video games, digital audio and video production. Media related industries continue to be one of the fastest growing segments of the job market. As computer and video technologies continue to expand there will be an ever-increasing demand for skilled workers at all levels of production and application.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate critical thinking skills and conceptual problem-solving skills to create a portfolio of work in audio/video production.
- Demonstrate expert and safe use of hardware and software while creating audio/video productions.
- Discuss, analyze and write about audio/video productions.
- Organize and assemble audio/video productions for presentation to an audience.

Required courses for the major:		21 Units
RTVF 30	Digital Audio Production	3
RTVF 12	Mass Media and Society	3
RTVF 40	Digital Video Production	3
RTVF 14	Introduction to Media Writing	3
MSP 74	Multimedia Production I	3
RTVF 55	Music Video Production	3
MSP 10	Digital Video Design and Production	3

Certificate of Achievement in Radio-TV-Film: Video Production

21 Units

Program Code: 07471.00CA
Type: Career
GE: None

About the Program

See AS degree in Radio-TV-Film: Video Production.

Gainful Employment Information
Certificate of Achievement in Radio-TV: Video Production:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate critical thinking skills and conceptual problem-solving skills to create a portfolio of work in audio/video production.
- Demonstrate expert and safe use of hardware and software while creating audio/video productions.

- Discuss, analyze and write about audio/video productions.
- Organize and assemble audio/video productions for presentation to an audience.

Required courses for the certificate:

RTVF 30	Digital Audio Production	3
RTVF 12	Mass Media and Society	3
RTVF 40	Digital Video Production	3
RTVF 14	Introduction to Media Writing	3
MSP 74	Multimedia Production I	3
RTVF 55	Music Video Production	3
MSP 10	Digital Video Design and Production	3

Certificate in Mass Media Studies

12 Units

Program Code: MASSMEDIA.CC
Type: Career
GE: None

About the Program

Completion of this certificate will introduce students to the study, writing and production of media content. Students choose the path most relevant to their career goals: the study of TV or film, and the production of audio or video.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the history, business models and new technologies of mass media in the United States.
- Analyze the role and function of media ethics in commercial mass media.
- Identify and address the technical and aesthetic issues related to creating and writing for electronic media.
- Write and assemble audio or video productions for presentation to an audience.

Required courses for the certificate:

RTVF 12	Mass Media and Society	3
RTVF 14	Introduction to Media Writing	3

Select one course from the following:

RTVF 13	Exploring Contemporary Television	3
RTVF 15	Introduction to Film	3

Select one course from the following:

RTVF 30	Digital Audio Production	3
RTVF 40	Digital Video Production	3

Certificate in Single Camera Video Production

9 Units

Program Code: SINGLECAMVIDPROD.CC
Type: Career
GE: None

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Apply basic videography skills to compose and record footage suitable for editing and digital manipulation.
- Use computer software to edit a complete video project including title and soundtrack.
- Select and edit audio sound effects and music for a video production.
- Upload a video project to an Internet video sharing site for on-line distribution.
- Evaluate a video production based on the target audience's interests, needs and viewing habits.

Required courses for the certificate:

MSP 10	Digital Video Design and Production	3
RTVF 30	Digital Audio Production	3
RTVF 40	Digital Video Production	3

Sociology (SOC)

AA-T Degree in Sociology
AA Degree in Social and Behavioral Science
Certificate in Sustainability Studies

Heather Valle, Chair (530) 895-2553
Department Office: LRC 304, (530) 895-2471
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Sociology — 60 Units Minimum

Program Code: 31954.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Describe the major concepts, perspectives, research methods, and historic trends in sociology.
- Identify and analyze contemporary social problems and issues of gender, race, ethnicity, and social inequality using qualitative and quantitative information.

Required courses for the major:			19 Units
Required Core:			
SOC 2	Principles of Sociology		3
SOC 4	Modern Social Problems		3
MATH 18	Introduction to Statistics	(P)	4
List A: Select two			
SOC 8	Introduction to Marriage, Family and Intimate Relationships		3
SOC 14	Sociology of Gender		3
SOC 20	Introduction to Race and Ethnicity		3
SOC 10	Introduction to Crime and Society		3
List B: Select one			
Any course from List A not already used			
SOC 5	Our Sustainable Future		3

AA Degree in Social and Behavioral Science — 60 Units Minimum

Program Code: 01363.00AA
Type: Local
GE: Butte Local

About the Program

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org. If you are intersted in this program please see a counselor.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify major theoretical orientations in the social and behavioral sciences and describe basic concepts regarding human behavior and thought.
- Utilize critical thinking skills to analyze, evaluate, and make decisions concerning complex contemporary issues and the interactions among individuals and across societies.
- Apply discipline-specific principles to the development of interpersonal, occupational, and social skills suited to a diverse world.

Required courses for the major:			18 Units
18 units chosen from:			
AJ 1	Criminology		3
AJ 2	Administration of Justice		3
AJ 3	Legal Research		2
AJ 4	Criminal Law		3
AJ 6	Evidence		3
AJ 7	Report Writing for Law Enforcement Officers		2
AJ 8	Criminal Investigation		3
AJ 10	Juvenile Procedures		3
AJ 11	Criminal Procedure		3
AJ 13	Organized Crime/Gangs		3
AJ 14	Community Oriented Policing		3
AJLE 1	Crisis Intervention Training		2
ANTH 4	Cultural Anthropology		3
ANTH 13	Magic, Witchcraft and Religion		3
ANTH 14	Language and Culture		3
ANTH 16	Archaeology and Ancient Societies		3
ANTH 18	World Cultures		3
ANTH 32	Native Americans		3
ANTH 33	Ancient Mesoamerica		3
ANTH 34	Native Americans Today		3
CDF 12	Child, Family, and Community		3
CDF 14	Child Growth and Development		3
CDF 57	Teaching in a Diverse Society		3
ECON 2	Principles of Macroeconomics	(P)	3
ECON 4	Principles of Microeconomics	(P)	3
ECON 20	Economic History of the U.S.		3
ECON 25	Introduction to Economics		3
ECON 35	Introduction to Environmental Economics		3
GEOG 4	Cultural Geography		3
GEOG 8	World Regional Geography		3
GEOG 10	Geography of California		3
GEOG 12	The American West		3
HIST 3	World History to 1500		3
HIST 5	World History since 1500		3
HIST 6	Modern World History		3
HIST 8	United States History to 1877		3
HIST 10	United States History-1877 to Present		3
HIST 18	Multicultural History of the United States		3
HIST 20	Political History of the Middle East		3
HIST 26	Men and Women in American History		3
HIST 30	History of the African American		3
MCGS 32	Introduction to African American Studies		3
MCGS 36	Introduction to Chicano American Studies		3
MCGS 38	Introduction to Asian American Studies		3
PHIL 2	Introduction to Philosophy		3
PHIL 5	Environmental Ethics		3
PHIL 6	Introduction To Logic		3
PHIL 8	Methods of Argument	(P)	3
PHIL 16	Western Religions		3

PHIL 18	Eastern Religions		3
PHIL 58	Teaching About Religion		3
PSY 1	Principles of Psychology		3
PSY 6	Abnormal Psychology		3
PSY 10	Peace and Global Studies Capstone		1
PSY 11	Peace Psychology		3
PSY 15	Lifespan Psychology		3
PSY 16	Psychology of Women		3
PSY 20	Personal and Social Growth and Wellness		3
PSY 24	Psychology of Sleep, Dreams and Archetypes		3
PSY 34	Eastern Psychology: Traditions and Practices		3
PSY 41	Socio-Cultural Context of Psychological Development		3
POS 2	United States Government		3
POS 3	Comparative Politics		3
POS 12	California State and Local Government		3
POS 16	Vital Political Problems		3
POS 18	International Relations		3
POS 92	Exploring Leadership		3
SOC 2	Principles of Sociology		3
SOC 4	Modern Social Problems		3
SOC 5	Our Sustainable Future		3
SOC 8	Introduction to Marriage, Family and Intimate Relationships		3
SOC 14	Sociology of Gender		3
SOC 30	Sociology of Inequality		3
SOC 55	Sustainability Studies Seminar	(C)	2

Certificate in Sustainability Studies

17 Units

Program Code: SUSTAINABILITY.CC
Type: Local
GE: None

About the Program

The Sustainability Studies Certificate program is designed to broaden and deepen students' understanding of the interconnected nature of the comprehensive social, economic, and environmental transformations of the 21st Century. This course of study will provide students with an interdisciplinary body of knowledge that focuses on the problems human civilization faces as well as the solutions and strategies that will lay the groundwork for a sustainable future. Students will develop leadership skills that inspire cooperation and mutual respect, and facilitiate innovative, durable, and sustainable pathways for social and personal change, economic security and prosperity, and environmental restoration.

Students who complete the Sustainability Studies Certificate program will be well preparared to make sound career and lifestyle choices that support and promote a satisfying and sustainable world for all living beings - now and into the indefinite future. The Certificate in Sustainability Studies will increase the marketability of students who go directly into the workforce, and will enrich the knowledge set of students who continue their education in sustainability related fields at the university level and beyond.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Identify how current social, economic, and environmental problems affect their individual lives, the lives of people in other parts of the world, and the lives of future generations.
- Define sustainability, evaluate the sustainability of particular systems and practices, and analyze the political and cultural challenges of sustainability implementation.
- Recognize the fundamental impacts of humans, including commerce and attitudes, on the earth's systems.
- Evaluate the interdependencies and long-term thinking necessary to grow the world economy while also protecting environmental resources.
- Utilize critical thinking to develop a point of view regarding the problems and potential solutions for providing adequate yields of nutrient dense food and potable water for a growing global population, both in developing and developed countries.
- Discuss and write about the ways in which fields such as environmental ethics, ecology, sociology, technology and others interconnect in Sustainability Studies.
- Develop ideas to create common ground and promote the principles of sustainability to diverse groups of people.
- Develop a knowledge base to enable them to choose lifestyles and careers that will promote sustainable principles.

Required courses for the certificate:

SOC 5	Our Sustainable Future		3
ECON 35	Introduction to Environmental Economics		3
BIOL 7	Sustaining Life on Earth		3
PHIL 5	Environmental Ethics		3
SOC 55	Sustainability Studies Seminar	(C)	2
PSY 11	Peace Psychology		3
or AGS 10	World Food and Hunger Issues (3)		

Spanish (SPAN)

AA-T Degree in Spanish

Ileana Gantt, Chair (530) 895-2286
Department Office: LRC 304, (530) 895-2471
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AA-T Degree in Spanish

60 Units Minimum

Program Code: 35887.00AA-T
Type: Transfer
GE: CSU or IGETC

About the Program

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Converse and write in Spanish at the intermediate level with effective use of grammar, vocabulary, comprehensible pronunciation, and syntax on a range of topics such as personal and family lives, school or work, and current events.
- Read and understand authentic texts in Spanish such as letters, essays, newspaper articles, poems, and/ or short stories.
- Demonstrate knowledge and understanding of the linguistic, literary, and cultural elements (such as general knowledge of the social, political, and economic conditions and contributions) of the Spanish speaking world.

Required courses for the major:			**19 Units**
Required Core:			
SPAN 1	First Semester Spanish		4
SPAN 2	Second Semester Spanish	(P)	4
SPAN 3	Third Semester Spanish	(P)	4
SPAN 4	Fourth Semester Spanish	(P)	4
List A: Select one			
SPAN 14	Hispanic Short Stories	(P)	3
SPAN 16	Hispanic Film	(P)	3

Special Education Training (SPED)

Certificate in Special Education for Instructional Service Agreement Instructors

Julie Nuzum, Program Coordinator
Department Office: CHC 140, (530) 879-4354
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

Certificate in Special Education for Instructional Service Agreement Instructors — 7 Units

Program Code: SPEINSTRSERVAGREE.CC
Type: Other
GE: NONE

About the Program

The Certificate of Training in Special Education for Instructional Service Agreement Instructors and required years of experience will qualify students to become Instructional Serve Agreement Instructors in agencies that serve adults with sdisabilities. Program contents emphasize strategies for instruction, authentic, real-world assessments, recognition of learning challenges, and legislation governing both agency programs and college programs meant for adults with disabilities.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Ensure successful students can implement authentic assessment measures.
- Enhance student abilities to determine learning styles and recognize leaning challenges.
- Train students in delivering multiple instructional strategies.
- Develop students' knowledge about Special Education legislation and documentation.

Required courses for the certificate:

SPED 100	Special Education Regulations in the Workplace	(C)	2
SPED 101	Teaching Adults with Disabilities	(C)	2
SPED 102	Teaching Adults with Disabilities Practicum	(P)	3

Welding (WLD)

AS Degree in Welding Technology
Certificate of Achievement in Welding Technology
Certificate in PowerPathway Gas Pipeline Welding
Certificate in Welding Technology Level I
Certificate in Welding Technology Level II
Certificate in Welding Technology Level III

Miles Peacock, Chair (530) 879-6162
Department Office: AHPS 251, (530) 895-2551
Counseling and Advising: (530) 895-2378
Transfer Counseling Center: (530) 895-2264

To obtain an Associate's degree, students must complete both the major requirements and the graduation requirements.

Note that some courses have a prerequisite (P), corequisite (C), or both (P/C). See Catalog Descriptions section for details.

AS Degree in Welding Technology — 60 Units Minimum

Program Code: 01325.00AS
Type: Career
GE: Butte Local

About the Program

The Welding Technology program is designed to prepare students to become certified welders under standards set by the American Welding Society, American Society of Mechanical Engineers and American Petroleum Institute. Certification examinations may be taken after completion of the courses.

To be successful in this program, students need basic competence in mathematics, must possess good eyesight at least with corrective lenses, sufficient physical stamina to be able to stand and bend for long periods, and not to be bothered by extended exposure to the outdoors.

Students who are still enrolled in high school and who are considering a career as an industrial welder are encouraged to take courses in mathematics, industrial education, and welding. Courses in physical sciences and physics would enhance a student's knowledge and broaden one's experiences.

The objective of this program is to teach students to read and follow blueprints and plans, lay out jobs to be done, cut and bend materials, operate an oxy-acetylene torch, shielded metal arc, flux core arc, and do mig and tig welding, and certify in the above processes.

For certified welders employment opportunities are virtually unlimited. High-paying jobs are open in both heavy and light industry throughout California as well as the nation and the world. As far as can be seen in the future, the job market for certified welders will be excellent.

Admission to the Program

The Welding Technology program is a two-semester program and only starts in the Fall Semester. The prerequisites to the program are completion of WLD 20 and WLD 21. We accept 50 students, the program is currently impacted. If you are interested in this program, please contact Miles Peacock at (530) 879-6162 or email at peacockmi@butte.edu, to start the process and paperwork that is required by the Welding Department. Please visit the Welding Technology Departments home page http://www.butte.edu/departments/careertech/welding/weldingapplication.html. Estimated expenses average about $5,200 - $6,200 for the entire program. This includes tools, books, tuition, and welding qualification documentation (if you pass the welding certification test). Financial aid is available to qualified students. Those students who complete the program can receive a Certificate in Welding Technology Level I, a Certificate in Welding Technology Level II, a Certificate in Welding Technology Level III, and a Certificate of Achievement and may elect to earn an Associate's degree in Welding Technology.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Setup and safely operate welding equipment.
- Demonstrate the skill set necessary to qualify for an unlimited position welding qualification meeting AWS standards.
- Demonstrate effective oral and written communication in a variety of situations, utilizing proper welding terminology and acronyms.

Required courses for the major: **54 Units**

Upon completion of the following courses the student will be prepared to take the Welder Certification test:

WLD 22	Oxyacetylene Welding and Flame Cutting	(P/C)	2
WLD 24	Shielded Metal Arc Welding (Stick Electrode)	(P/C)	8
WLD 25	Fabrication Practicums	(P/C)	2
WLD 26	Symbol Reading, Blue Print Interpretation and Computations	(P/C)	3
WLD 28	Mig and Tig Arc Welding	(P/C)	3
WLD 30	Heavy Plate Welding	(P/C)	3
WLD 32	Integrated Welding Applications	(P/C)	3
WLD 34	Pipe and Tube Welding	(P/C)	4
WLD 36	Welder Qualification	(P/C)	3
WLD 40	Welding Equipment Maintenance and Service	(P/C)	2
WLD 42	Introduction to Welding Inspection	(P/C)	2
WLD 50	Pipe Fitting and Cutting	(P)	2
WLD 56	Welding Industry Employment Preparation	(P/C)	3
WLD 154	Shop Practices for Welders I	(P/C)	1
WLD 156	Shop Practices for Welders II	(P/C)	1
WLD 160	Welding Certification Practices	(P)	1
BUS 25	Small Business Management		3
AB 54	Supervision and Management in Agriculture		3
BCIS 18	Introduction to Business Technology		3
or CSCI 2	Business and Computer Information Systems (3)		
WLD 99	Work Experience-WLD	(P)	2

Certificate of Achievement in Welding Technology — 43 Units

Program Code: 01325.00CA
Type: Career
GE: None

About the Program

See AS Degree in Welding Technology.

Gainful Employment Information
Certificate of Achievement in Welding Technology:
http://www.butte.edu/academicprograms/

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Setup and safely operate welding equipment.
- Demonstrate the skill set necessary to qualify for an unlimited position welding qualification meeting AWS standards.
- Demonstrate effective oral and written communication in a variety of situations, utilizing proper welding terminology and acronyms.

Required courses for the certificate:

WLD 22	Oxyacetylene Welding and Flame Cutting	(P/C)	2
WLD 24	Shielded Metal Arc Welding (Stick Electrode)	(P/C)	8
WLD 25	Fabrication Practicums	(P/C)	2
WLD 26	Symbol Reading, Blue Print Interpretation and Computations	(P/C)	3
WLD 28	Mig and Tig Arc Welding	(P/C)	3

WLD 30	Heavy Plate Welding	(P/C)	3
WLD 32	Integrated Welding Applications	(P/C)	3
WLD 34	Pipe and Tube Welding	(P/C)	4
WLD 36	Welder Qualification	(P/C)	3
WLD 40	Welding Equipment Maintenance and Service	(P/C)	2
WLD 42	Introduction to Welding Inspection	(P/C)	2
WLD 50	Pipe Fitting and Cutting	(P)	2
WLD 56	Welding Industry Employment Preparation	(P/C)	3
WLD 154	Shop Practices for Welders I	(P/C)	1
WLD 156	Shop Practices for Welders II	(P/C)	1
WLD 160	Welding Certification Practices	(P)	1

Certificate in PowerPathway Gas Pipeline Welding

7 Units

Program Code: POWERPATHWAY.CC
Type: Career
GE: None

About the Program

This program enhances the abilities of the students preparing for a career in the power generation and petrochemical pipe and tube welding industry by teaching them the skills that are needed for the industry. Students who have completed the Welding Technology Program and have been working in industry for a few years are coming back to take this program for career advancement and some are using this course as a method of continuing their education and advance their welding skills. The powerpathway specifically trains welders for potential apprentice welding positions within Pacific Gas and Electric.

Admission to the Program

Completion of Certificate of Achievement or AS Degree in Welding Technology.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Setup and safely operate welding equipment.
- Layout, cut, prepare, and weld various pipe joint designs.
- Apply qualification procedures of the API and ASME for certification.

Required courses for the certificate:

Courses required for the PowerPathway Apprenticeship Program (only offered in the summer session)

WLD 55	Power Generation and Petroleum Chemical Pipe & Tube Welding	(P/C)	5
WLD 158	Shop Practices for Pipe and Tube Welders	(P/C)	1
WLD 162	Pipe and Tube Welding Certification Practices	(P)	1

Certificate in Welding Technology Level I

9 Units

Program Code: WELDINGLEVELI.CC
Type: Career
GE: None

About the Program

This program enhances the abilities of the students preparing for a career in welding technology by giving them: Welding Safety, Oxyfuel Cutting, Plasma Arc Cutting, Air Carbon Arc Cutting and Gouging, Base Metal Preparation, Weld Quality, SMAW Equipment and Safety, Shielded Metal Arc Electrodes, SMAW Beads and Fillet Welds, Joint Fit-Up and Alignment, SMAW Groove Welds and Backing, and SMAW Open V-Groove Welds. Welding is a high-tech industry that can take you places all over the world. From ladders to aircraft carriers, from NASCAR to national defense, and from the laboratory to sales and repair, the varied welding industry impacts virtually every industry. Technology is creating more uses for welding in the workplace. For example, new ways are being developed to bond dissimilar materials and non-metallic materials, such as plastics, composites, and new alloys. Also, advances in laser beam and electron beam welding, new fluxes, and other new technologies and techniques all point to an increasing need for highly trained and skilled workers.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Setup and safely operate welding equipment.
- Operate the SMAW units to weld in the flat, horizontal, vertical, and overhead positions.
- Demonstrate proper welding process of groove welds (with backing and open) per qualification procedures set by the AWS.

Required courses for the certificate:

WLD 20	Beginning Welding		4
WLD 21	Intermediate Welding	(P)	4
WLD 152	Shop Practices for Intermediate Welders	(P)	1

Certificate in Welding Technology Level II

14 Units

Program Code: WELDINGLEVELII.CC
Type: Career
GE: None

About the Program

This program enhances the abilities of the students preparing for a career in welding technology by giving them: Welding Symbols, Reading Welding Detail Drawings, Physical Characteristics and Mechanical Properties of Metals, Preheating and Postheating of Metals, GMAW and FCAW Equipment and Filler Metals, GMAW and FCAW Plate, GTAW Equipment and Filler Metal, and GTAW Plate. Welding is a high-tech industry that can take you places all over the world. From ladders to aircraft carriers, from NASCAR to national defense, and from the laboratory to sales and repair, the varied welding industry impacts virtually every industry.Technology is creating more uses for welding in the workplace. For example, new ways are being developed to bond dissimilar materials and non-metallic materials, such as plastics, composites, and new alloys. Also, advances in laser beam and electron beam welding, new fluxes, and other new technologies and techniques all point to an increasing need for highly trained and skilled workers. This certificate will be earned by the student through the completion of the first semester of welding course.

Admission to the Program

Completion of Certificate in Welding Technology Level I.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Setup and safely operate welding equipment.
- Demonstrate proper use of the OAW and SMAW processes in all positions.
- Demonstrate proper base metal, beads and fillet welds qualification procedures per requirements set by the AWS.
- Interpret welding symbols on a variety of layouts and working drawings.

Required courses for the certificate:

WLD 22	Oxyacetylene Welding and Flame Cutting	(P/C)	2
WLD 24	Shielded Metal Arc Welding (Stick Electrode)	(P/C)	8
WLD 26	Symbol Reading, Blue Print Interpretation and Computations	(P/C)	3
WLD 154	Shop Practices for Welders I	(P/C)	1

Certificate in Welding Technology Level III — 17 Units

Program Code: WELDINGLEVELIII.CC
Type: Career
GE: None

About the Program

This program enhances the abilities of the students preparing for a career in welding technology by giving them: SMAW-Open-Root Pipe Welds, GMAW-Pipe, FCAW-Pipe, GTAW-Carbon Steel Pipe, GTAW-Low Alloy and Stainless Steel Pipe, SMAW-Stainless Steel Plate and Pipe Groove Welds. Welding is a high-tech industry that can take you places all over the world. From ladders to aircraft carriers, from NASCAR to national defense, and from the laboratory to sales and repair, the varied welding industry impacts virtually every industry. Technology is creating more uses for welding in the workplace. For example, new ways are being developed to bond dissimilar materials and non-metallic materials, such as plastics, composites, and new alloys. Also, advances in laser beam and electron beam welding, new fluxes,and other new technologies and techniques all point to an increasing need for highly trained and skilled workers. This certificate will be earned by the student through the completion of the second semester of welding course work for the Certificate of Achievement in Welding Technology.

Admission to the Program

Completion of Certificate in Welding Technology Level II.

Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Setup and safely operate welding equipment.
- Weld pipe and tube in 2G, 5G and 6G position using all the following processes: SMAW, GMAW, GTAW, and FCAW.
- Apply qualification procedures in several codes to meet the required standard for entry-level employment.

Required courses for the certificate:

WLD 28	Mig and Tig Arc Welding	(P/C)	3
WLD 30	Heavy Plate Welding	(P/C)	3
WLD 32	Integrated Welding Applications	(P/C)	3
WLD 34	Pipe and Tube Welding	(P/C)	4
WLD 36	Welder Qualification	(P/C)	3
WLD 156	Shop Practices for Welders II	(P/C)	1

Course Descriptions

Butte College Course Descriptions

Course Numbering System

Courses 1-99 ..... Degree Credit
Courses approved for transfer to the CSU/UC systems and private colleges and universities. Not all transfer institutions accept all such numbered courses.

100-199 ..... Degree Credit
Courses approved for the Associate Degree only. Not transferable to four-year institutions.

200-299 ..... Non-degree Credit
Remedial and developmental courses. These courses do not apply toward the Associate Degree.

300-399 ..... Noncredit
Courses recommended for adult education. Noncredit, ungraded, and may not be used for Associate Degree or transfer

Transfer Status

CSU: Transfers to campuses of the California State University system
UC: Transfers to campuses of the University of California system
NT: Nontransferable course

Course Identification Numbering System (C-ID)
The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges.

Prerequisites
Prerequisites are required to be completed before enrolling in courses. The student is responsible for ensuring they have completed the prerequisites before attempting to register for the course to minimize potential delays in the registration process. Students who are unsure whether or not they have met the prerequisite (or are unsure whether or not Butte College is aware that they have met the prerequisite) must contact the counseling center prior to registration. Prerequisite courses require a satisfactory completion (grades of “P,” “C” or better).

Corequisites
Some courses require a “corequisite,” that is, concurrent enrollment in an additional specified course or courses. This means all of the courses need to be taken during the same term.

Challenges to Prerequisites and Corequisites
Students may challenge a prerequisite or corequisite for a course if they have the knowledge or ability to succeed in the course despite not meeting the prerequisite. Documentation is required. The student will bear the initial burden of showing that grounds exist for the challenge. The challenge should be directed to the department which offers the course. Contact the Career and Academic Assessment Center for a list of chair contacts at (530) 895-2511. Student challenges to their course placement in Math may be pursued through the Counseling Office.

Course Families
Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or “W”) within each family group.

Agriculture Business (AB)

AB 20 - Careers in Agriculture, Environmental Science and Natural Resources **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
This course is a study of the agriculture, environmental science and natural resources industries with a focus on career opportunities, self evaluation, and skills necessary for successful job procurement. Topics include job trends, resumes and cover letters, interviewing skills, and the types of careers available in agriculture, environmental science, and natural resources.

AB 22 - Agricultural Economics **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course covers the place of agriculture and farming in the economic system. Topics include basic economic concepts, problems of agriculture, pricing and marketing problems, factors of production, and state and federal farm programs that affect the farmer's economic position. (C-ID AG-AB 124).

AB 25 - Computer Applications in Agriculture **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course covers computer use in the workplace with emphasis on agribusiness situations. Computer applications including word-processing, spreadsheets, databases, and presentation managers will be covered. Also included will be accessing information through the Internet and World Wide Web, telecommunications, an introduction to web page design and other software appropriate to agribusiness. Application of these concepts and methods through hands-on projects developing computer-based solutions for agriculture business. (C-ID AG-AB 108).

AB 26 - Introduction to Agriculture Business **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course provides students with a basic understanding of the business and economics of the agricultural industry; an introduction to the economic aspects of agriculture and their implications to the agricultural producer, consumer and the food system; management principles encountered in the day to day operation of an agricultural enterprise as they relate to the decision making process. (C-ID AG-AB 104).

AB 50 - Agricultural Accounting **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is a study of the principles of agricultural accounting systems and types of records, their use and how to compute and use measures of earnings and cost of production to improve agribusiness efficiency. Farm income tax, Social Security, and employee payroll records also included. Application of these concepts and methods through hands-on projects developing computer-based solutions for agriculture business. (C-ID AG-AB 128).

AB 54 - Supervision and Management in Agriculture **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to the knowledge and skills relevant to the supervisor in agricultural business. Topics include the regulatory requirements relevant to labor management in agriculture and effective communication with native and non-native English speakers. The course will include case studies on labor management, human relations, public relations, production control techniques and job analysis.

Accounting (ACCT)

ACCT 2 - Financial Accounting **4 Unit(s)**
Transfer Status: CSU/UC 68 hours Lecture
This is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics. (C-ID ACCT 110).

ACCT 4 - Managerial Accounting **4 Unit(s)**
Prerequisite(s): ACCT 2
Transfer Status: CSU/UC 68 hours Lecture
This course provides students an in depth study of how managers use accounting information in decision-making, planning, directing operations and controlling. It focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Includes issues relating to cost systems, cost control, profit planning, and performance analysis in manufacturing and service environments. (C-ID ACCT 120).

ACCT 20 - Introduction to Accounting **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an introductory accounting course designed for students with little or no prior accounting training. The course covers the entire accounting cycle including analysis of business transactions, journalizing, posting, and preparation of financial statements using a hands-on approach. Provides foundation for further study of accounting principles and recommended prior to enrollment in Financial Accounting (ACCT 2), especially for Accounting Majors.

ACCT 30 - Accounting Capstone **4 Unit(s)**
Prerequisite(s): ACCT 4 (or concurrent enrollment) and ACCT 110 (or concurrent enrollment)
Transfer Status: CSU 68 hours Lecture
The Capstone course is the culmination of the accounting knowledge learned in previous courses (ACCT 20, ACCT 2, ACCT 4, ACCT 100, and ACCT 110) preparing students to enter the accounting workforce. The course involves substantial accounting simulations where students apply the accounting cycle, prepare supporting work-papers, create budgets and variance analysis, and synthesize their accounting skills. This course will assist students in preparing for the American Institute of Professional Bookkeepers' certification exam.

ACCT 97 - Special Problems-ACCT **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

ACCT 99 - Work Experience-ACCT **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

ACCT 100 - QuickBooks Pro-Computerized Accounting **2 Unit(s)**
Prerequisite(s): ACCT 2 or ACCT 20
Transfer Status: NT 34 hours Lecture / 17 hours Lab
This course provides a transition from a manual accounting system to a typical computerized system. The objective is to collect, summarize and communicate information to decision makers and users via QuickBooks Pro accounting software. Typical documents produced consist of purchase orders, checks, invoices, deposit slips, job cost reports, financial statements, bank reconciliations, payroll tax returns and 1099 forms.

ACCT 105 - Income Tax Preparation **4 Unit(s)**
Transfer Status: NT 68 hours Lecture
This course is a study of the Federal and California income tax laws that apply to taxpayers, the application of the laws by computation of various practical problems and the completion of forms required by the Internal Revenue Service and the California State Franchise Tax Board. The requirements for becoming a licensed tax preparer and the rules and regulations governing licensed tax preparers are reviewed. This course is primarily designed for the vocational student. It will orient the student toward working with tax problems in an accounting office, a financial institution, an enrolled agent's office, the Internal Revenue Service, the California State Franchise Tax Board, a state licensed tax preparers' office or in their own office.

ACCT 110 - Accounting for Payroll **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course introduces students to the payroll function and the necessary record keeping needed to comply with California and federal laws and regulations. Both manual and computer applications are included.

ACCT 128 - Bookkeeping **2 Unit(s)**
Transfer Status: NT 25.5 hours Lecture / 25.5 hours Lab
This course is an overview of basic bookkeeping methods from a practical business perspective. Topics discussed will include debits, credits, journal entries, petty cash, accounts receivable, accounts payable, trial balance, income statement, and the balance sheet for a service business. Students will also be introduced to the basic concepts of QuickBooks. Emphasis will be on providing answers to questions commonly asked by small business owners.

Ag Engineering Technology (AET)

AET 22 - Natural Resources and Agri-Construction **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to the selection and use of farm structural and mechanical equipment. It will cover farm wiring, carpentry, concrete, masonry, plumbing, painting and metal work with emphasis on the actual practices used in agricultural construction.

AET 26 - Basic Surveying **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This is a basic surveying course. Topics will include selection, care and use of tapes and levels; field observations, note taking and office computations; use of surveying instruments and equipment for land measurement and mapping; practice in differential, profile, and contour leveling; building foundation layout; horizontal angles; cut and fill measurements and calculations for land grading. Laser and Global Positioning System (GPS) technology will be introduced at the basic level.

AET 30 - Tractors and Crawlers **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course covers design principles, selection, maintenance, adjustment, and safe operation of wheel and crawler type tractors used in agriculture and in the construction industry. (C-ID AG-MA 108L).

AET 34 - Farm Machinery **3 Unit(s)**
Transfer Status: CSU 42.5 hours Lecture / 25.5 hours Lab
This course involves the design principles, uses, maintenance, adjustment, calibration, and repair of machinery used in California agriculture. Emphasis is placed on primary and secondary tillage, planting, chemical application, and harvesting equipment. Selection and operation of both machinery and tractors will be practiced. Safety will be stressed throughout.

AET 35 - Heavy Equipment Methods **3 Unit(s)**
Co-requisite(s): AET 36
Transfer Status: CSU 51 hours Lecture
This course will examine construction regulations, erosion control, drainage, environmental mitigations, soils and aggregates, technical report writing, interpreting blueprints and site plans, applied mathematical calculations, management skills, fleet management practices, project organization, and entrepreneurship.

AET 36 - Heavy Equipment Operation **6 Unit(s)**
Co-requisite(s): AET 35
Transfer Status: CSU 34 hours Lecture / 204 hours Lab
This course covers selection, operation, service, and adjustment of heavy equipment used in agriculture and construction industries. Also covered are measurement and techniques used in preparing roads, building sites, and other projects as may be required in the field using heavy equipment.

AET 38 - Diesel Engines and Machine Systems **4 Unit(s)**
Transfer Status: CSU 51 hours Lecture / 51 hours Lab
This course presents the theory, operating principles, application, component parts, support systems, maintenance, adjustment, and repair of Diesel engines and related systems used on modern trucks and heavy equipment used in the construction and agricultural industries. The related systems include electrical, power train, hydraulic, and Heating, Ventilating, and Air Conditioning (HVAC) systems.

AET 43 - Hydraulic and Pneumatic Systems **2 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 51 hours Lab
This course is an introduction to the theory, operating principles, application, graphical symbols, component parts, systems, maintenance, adjustment, and repair of hydraulic and pneumatic systems used on modern trucks and heavy equipment used in the construction and agricultural industries.

AET 44 - Grade Setting **2 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 51 hours Lab
This course will cover reading site plans, interpreting grade stakes, and setting grades to ensure that earth-moving work meets specifications, using both manual and Global Positioning Systems (GPS) methods.

Agriculture Science (AGS)

AGS 10 - World Food and Hunger Issues **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a study of the world's food needs with emphasis on the problems and policies of developing nations. The course will examine the evolution from hunter-gatherer to domesticated agriculture and the role agriculture currently plays in the sustainability of economic and political progress of developing nations and the ethical and environmental implications.

AGS 20 - Plant Science **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an introduction to plant science including structure, growth processes, propagation, physiology, growth medica, biological competitors, and post-harvest factors of food, fiber, and ornamental plants. (C-ID AG-PS 104).

AGS 30 - Ecology of Insect and Disease Management **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is a study of the scientific principles and concepts of ecologically based pest management, with emphasis on economically important insects and pathogens in agriculture, environmental horticulture, natural resources, parks and recreation. Included is an introduction to insects and disease organisms, their biology, identification and management, with a focus on plants of the local geographic area.

AGS 40 - Introduction to Animal Science **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is a scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. There will be special emphasis on the origin, characteristics, adaptation and contributions of farm animals to the global agriculture industry. Analysis of the economic trends and career opportunities in animal agriculture will be covered.

AGS 45 - Feeds and Feeding **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is a study of the basic nutrients involved in animal nutrition: protein, energy, vitamins, minerals and feed additives and their utilization by the animal's body. An analysis of the feeding value of common feedstuffs in practical livestock rations will be completed. Students will be introduced to the formulation of balanced rations for species of livestock including least cost computer formulated rations.

AGS 50 - General Soils **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
The study of soil physical, chemical and biological properties. Soil use and management including erosion, moisture retention, structure, cultivation, organic matter and microbiology. Laboratory topics include soil type, classification, soil reaction, soil fertility and physical properties of soil. (C-ID AG-PS 128L).

AGS 51 - Fertilizers and Plant Nutrition **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is a study of the composition, value, selection, and use of fertilizer materials and soil amendments within the context of soil, plant, and fertilizer relationships. Application practices currently being used in California will be discussed.

AGS 97 - Special Problems-AGS **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

AGS 99 - Work Experience-AGS **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

AGS 104B - Organic Farming Techniques **1 Unit(s)**
Transfer Status: NT 17 hours Lecture
This course covers plant nutrition, soils management and soil fertility from an organic perspective. Emphasis will be placed upon plant nutrition, management of soil organics, and soil testing. Pass/No Pass Only.

Administration of Justice (AJ)

AJ 1 - Criminology **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an introduction to the philosophy of law enforcement, professional responsibilities and urban problems, criminology, organization, jurisdiction and interrelationships of local, state and federal law enforcement agencies. Students are also introduced to professional career opportunities and qualifications required for employment within the field. Graded Only.

AJ 2 - Administration of Justice **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principals and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies. (C-ID AJ 110).

AJ 3 - Legal Research **2 Unit(s)**
Transfer Status: CSU 34 hours Lecture
This course is an introduction to legal research. Students will become familiar with and learn how to use materials commonly found in law libraries via a web-based legal resource. Graded Only.

AJ 4 - Criminal Law **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. This course utilizes case law and case studies to introduce students to criminal law. The completion of this course offers a foundation upon which upper-division criminal justice course will build. The course will also include some limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes. (C-ID AJ 120). Graded Only.

AJ 6 - Evidence **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines categories of evidence and legal rules governing its admission and exclusion in the criminal process. (C-ID AJ 124). Graded Only.

AJ 7 - Report Writing for Law Enforcement Officers **2 Unit(s)**
Transfer Status: CSU 34 hours Lecture
This course is designed to improve and enhance written communication skills of current or future law enforcement officers. Students will review basic English writing skills and apply them to written reports relative to standardized law enforcement crime report, crime report narrative, crime scene investigation, evidence submission and criminal citation. Emphasis will be placed on developing the writing skills needed for preparing the reports to be submitted for case prosecution.

AJ 8 - Criminal Investigation **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course addresses the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, source of information, utility of evidence, scientific analysis of evidence and the role of the investigator in the trial process. (C-ID AJ 140). Graded Only.

AJ 10 - Juvenile Procedures **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an examination of the origin, development, and organization of the Juvenile Justice System as it evolved in the American Justice System. The course explores the theories that focuses on Juvenile Law, courts and processes, and the constitutional protections extended to juveniles administered in the American Justice System. (C-ID AJ 220). Graded Only.

AJ 11 - Criminal Procedure **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course provides an examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal utilizing statutory law and state and constitutional law precedents. (C-ID AJ 122). Graded Only.

AJ 13 - Organized Crime/Gangs **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an introduction to the interrelations of organized crime, such as gangs and narcotics, to the community. Topics include the impact of covert criminal activities upon the social structure, symptoms of organized crime, political influences in the legal system, and management of crime control units.

AJ 14 - Community Oriented Policing **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict. Emphasis is placed on the challenges and prospects of administering justice within a diverse multicultural population. Topics include the consensus and conflicting values in culture, religion, and law. (C-ID AJ 160)

AJ 97 - Special Problems-AJ **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

AJ 99 - Work Experience-AJ **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Administration of Justice Law Enforcement (AJLE)

AJLE 1 - Crisis Intervention Training **2 Unit(s)**
Transfer Status: CSU 36 hours Lecture / 4 hours Lab
This course will provide public safety personnel with the skills and knowledge to recognize individuals with mental illness, identify potential disorders, minimize escalations in contacts with the mentally ill and thereby reducing death and injury to peace officers and mentally ill individuals. Training focuses on developing techniques on approaching mentally ill subjects, communication, de-escalation, gathering information and using listening skills. Pass/No Pass Only.

AJLE 100 - Law Enforcement Academy Physical Training **2 Unit(s)**
Co-requisite(s): AJLE 130, AJLE 140 or AJLE 141
Transfer Status: NT 11 hours Lecture / 73 hours Lab
This course conforms to the California Commission on Peace Officer Standards and Training (POST) Basic Law Enforcement Academy requirements for Learning Domain #32, Lifetime Fitness. The course provides an overview of physical fitness for a healthy lifestyle for peace officers. Topics include proper nutrition, common health problems, causes of stress, stress management and physical conditioning.

AJLE 130 - Law Enforcement Academy; Basic/State Parks Emphasis **43 Unit(s)**
Prerequisite(s): Must be approved, accepted and employed as a State Park Peace Officer Cadet (Ranger or Lifeguard) for the California Department of Parks and Recreation or as a peace officer trainee by a California law enforcement agency; OR must have a high school diploma from an accredited high school, or a GED certificate; AND must pass Peace Officer Standards and Training Entry Level Law Enforcement Test Battery (PELLET-B) exam with a score of 42 or higher; AND must pass Law Enforcement Academy Physical Training Test, a 1.5 mile run which must be completed in 15 minutes or less, and no more than 3 months prior to the first day of the academy; AND Must complete Butte College Law Enforcement Academy orientation; AND must possess a valid unrestricted driver's license with no current or recent suspensions; AND must provide a Department of Justice clearance within 90 days prior to the start of the academy which confirms the applicant has no felony or misdemeanor convictions which would prohibit possession of a firearm; AND must provide proof of completion of a medical suitability examination.
Co-requisite(s): AJLE 100, AJLE 131, AJLE 132, AJLE 133
Transfer Status: NT 561 hours Lecture / 512 hours Lab
This course prepares the student for a career as a peace officer with an emphasis on the Department of Parks and Recreation (DPR), under the authority of the California Commission on Peace Officer Standards and Training (P.O.S.T.). The curriculum covers learning domains (LDs) ranging from academic subjects in criminal law, investigation and patrol procedures to psychomotor skills in defensive tactics, firearms training, driving skills and officer-violator contacts. The successful completion of this course will allow the student to meet a prerequisite for employment as a peace officer in California (valid for three years after graduation) and lead to the issuance of a Basic Law Enforcement Certificate from P.O.S.T. after field training and one year of approved field service at a law enforcement agency. Graded Only.

AJLE 131 - Basic Interpretation Learning System (BILS); State Parks Emphasis **4.5 Unit(s)**
Transfer Status: NT 64 hours Lecture / 56 hours Lab
This course is intended to prepare the student for employment in positions with an emphasis on interpretation in parks, but a primary emphasis as California State Parks Peace Officers. Modules addressed include communication, purpose and value, planning, programs, talks, walks, evaluations, professionalism and more. Students will learn presentation skills, leadership development and administrative processes related to advancement into State Parks Peace Officer positions. Graded Only.

AJLE 132 - Emergency Medical Responder; State Parks Emphasis **3.5 Unit(s)**
Transfer Status: NT 49.5 hours Lecture / 30.5 hours Lab
This course is designed to prepare public safety professionals, State Parks Peace Officers in particular, to serve in roles which include collateral responsibility as Emergency Medical Responders. The course meets the requirements for learning needs, learning objectives and hourly requirements of the California Commission on Peace Officer Standards and Training (P.O.S.T.) for Learning Domain 34, First Aid and CPR (Title 11, Division 2. Section 1005 of the California Code of Regulations); and the requirements of Title 22, Division 9, Chapter 1.5 of the California Code of Regulations regarding First Aid and CPR Standards and Training for Public Safety Personnel. Graded Only.

AJLE 133 - Patrol Rifle **0.5 Unit(s)**
Prerequisite(s): Must be able to provide proof of eligibility to legally possess long and short barreled rifles and shotguns as described in California Penal Code 17090, 17170, 17180 and 17190
Transfer Status: NT 9 hours Lecture / 15 hours Lab
Successful completion of this course will allow students to possess and use long or short barreled rifles or shotguns when acting pursuant to California Penal Code 33220(b). This course meets the requirements of POST training regulation 1005(i), and covers the current state of the law, use of force, safety issues, nomenclature, specifications, capabilities, firearm care, breakdown and cleaning, tactical considerations, skill development and qualification. Graded Only.

AJLE 140 - Law Enforcement Academy **34.5 Unit(s)**
Prerequisite(s): (See Catalog for Program Admission Criteria)
Co-requisite(s): AJLE 100
Transfer Status: NT 457 hours Lecture / 384 hours Lab
This 23-week course prepares the student for a career as a peace officer under the authority of the California Commission on Peace Officer Standards and Training (P.O.S.T.). The curriculum covers learning domains ranging from academic subjects on criminal law, investigation and patrol procedures to psychomotor skills on defensive tactics, firearms training, driving skills and officer-violator contacts. The successful completion of this course will allow the student to be employed as a peace officer in California (valid for three years after graduation) and lead to the issuance of a Basic Law Enforcement Certificate from P.O.S.T. after one year of approved field service at a law enforcement agency. Graded Only.

AJLE 141 - Law Enforcement Academy; Fish and Wildlife Emphasis **48 Unit(s)**
Prerequisite(s): Must be approved, accepted and employed as a Warden Cadet for the California Department of Fish and Wildlife or as a peace officer trainee by a California law enforcement agency; OR Must have high school diploma from an accredited high school, or a GED certificate; Must pass Peace Officer Standards and Training Entry Level Law Enforcement Test Battery (PELLET-B) exam with a score of 42 or higher; Must pass Law Enforcement Academy Physical Training Test, a 1.5 mile run which must be completed in 15 minutes or less, and no more than 3 months prior to the first day of the academy; Must complete Butte College Law Enforcement Academy Orientation; Must possess a valid unrestricted driver's license with no current or recent suspensions and Provide Department of Justice clearance within 90 days of the start of the academy which confirms that applicant has no felony or misdemeanor convictions which would prohibit possession of a firearm; Must provide proof of completion of a medical suitability examination.
Co-requisite(s): AJLE 100
Transfer Status: NT 657 hours Lecture / 489 hours Lab
This 30-week course prepares the student for a career as a peace officer with an emphasis on the Department of Fish and Wildlife (DFW), under the authority of the California Commission on Peace Officer Standards and Training (P.O.S.T.). The curriculum covers learning domains ranging from academic subjects on criminal law, investigation and patrol procedures to psychomotor skills on defensive tactics, firearms training, driving skills and officer-violator contacts. The successful completion of this course will allow the student to be employed as a peace officer in California (valid for three years after graduation) and lead to the issuance of a Basic Law Enforcement Certificate from P.O.S.T. after one year of approved field service at a law enforcement agency. Graded Only.

AJLE 151A - PC 832 Arrest Module **2 Unit(s)**
Transfer Status: NT 28 hours Lecture / 12 hours Lab
This course is the first of two modules that comprise the minimum training standard for California peace officers as specified by the California Commission on Peace Officer Standards and Training (P.O.S.T.). Graduates of this course qualify for minimal peace officer powers as defined by the California Penal Code. This module contains instruction in 12 specific classroom subjects related to the authority and limitations of arrest. Additionally, students will participate in 10 hours of hands-on training in arrest, control, and searching techniques. Pass/No Pass Only.

AJLE 151B - PC 832 Firearms Module **0.75 Unit(s)**
Transfer Status: NT 8 hours Lecture / 16 hours Lab
This course is the second of two modules that comprise the minimum training standards for California peace officers as specified by the California Commission on Peace Officer Standards and Training (P.O.S.T.). Graduates of this course qualify for minimal peace officer powers as defined by the California Penal Code. This module contains 8 hours of classroom instruction in firearms safety, psychological and physiological responses, current firearms law, firearms cleaning techniques, and moral and ethical considerations. Additionally, students will participate in 16 hours of hands-on training in drawing and holstering, loading and unloading, and basic handgun shooting principles. Pass/No Pass Only.

AJLE 164 - POST Dispatcher Course **6.5 Unit(s)**
Transfer Status: NT 104 hours Lecture / 16 hours Lab
Becoming a public safety dispatcher means choosing dispatching not only as a career, but as a ethnical commitment to maintain public trust. Public safety dispatchers must understand their role and responsibilities, understand the operation of the communications center, and act with a high degree of professionalism and ethics. This course will cover the communication process of dispatching, criminal justice system, laws and the California Penal Codes, communication technology operations, resource referral services, and wellness management. This course meets the minimum requirements for certification by the California Commission on Peace Officer Standards and Training. Pass/No Pass Only.

Allied Health (ALH)

ALH 2 - Basic Emergency Response & Health Careers **3 Unit(s)**
Transfer Status: CSU 42.5 hours Lecture / 25.5 hours Lab
This entry level course will instruct students in the basics of emergency medical care, including Health Care Provider level Cardio-Pulmonary Resuscitation (CPR), First Aid and Safety, that will help sustain life, reduce pain and minimize the consequences of injury or a sudden illness until more advanced medical help takes over. In addition, the course will explore a variety of health care career pathways.

ALH 3 - Introduction to Public Health **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course provides an introduction to the discipline of Public Health. Students will gain an understanding of the basic concepts and terminologies of public health, and the history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions and institutions, and an in-depth examination of the core public health disciplines is covered. Topics of the discipline include the epidemiology of infectious and chronic disease; prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations; community organizing and health promotion programming; environmental health and safety; global health; and healthcare policy and management. (C-ID PHS 101)

ALH 6 - The Critical Six Soft Skills in the Professional Healthcare Environment **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course assists in the development of soft skills in the professional healthcare settings. Soft skills can be defined as a cluster of personality traits and behaviors that enhance the relationship between two individuals or an individual and an organization. Proficiency in the practice of soft skills has been identified as an essential characteristic to attain for any individual involved in the professional healthcare setting. Content will include six competency domains which include: Communication, Workplace Ethics and Professionalism, Team Building and Collaboration, Effective Problem Solving, Embracing Diversity and Demonstrating Compassion. Graded Only.

ALH 99 - Work Experience-ALH **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

ALH 104 - Medical Terminology **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course explores the specialized language used within the medical profession. Emphasis is placed on the definition, pronunciation and spelling of medical terms with focus on building medical words using prefixes, word roots, suffixes and combining forms. To further advance a working knowledge of these terms, vocabulary is taught in relation to the basic anatomy, physiology and pathology of body systems.

Anthropology (ANTH)

ANTH 2 - Physical Anthropology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course introduces the concepts, methods of inquiry, and scientific explanations for biological evolution and their application to the human species. Issues and topics will include, but are not limited to, genetics, evolutionary theory, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The scientific method serves as foundation of the course. (C-ID ANTH 110).

ANTH 2H - Honors Physical Anthropology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This honors level course introduces the concepts, methods of inquiry, and scientific explanations for biological evolution and their application to the human species. Issues and topics will include, but are not limited to, genetics, evolutionary theory, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The scientific method serves as foundation of the course. The course may include a lab component. (C-ID ANTH 110) Graded Only.

ANTH 4 - Cultural Anthropology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course explores how anthropologists study and compare human culture. Cultural anthropologists seek to understand the broad arc of human experience focusing on a set of central issues: how people around the world make their living (subsistence patterns); how they organize themselves socially, politically and economically; how they communicate; how they relate to each other through family and kinship ties; what they believe about the world (belief systems); how they express themselves creatively (expressive culture); how they make distinctions among themselves such as through applying gender, racial and ethnic identity labels; how they have shaped and been shaped by social inequalities such as colonialism; and how they navigate culture change and processes of globalization that affect us all. Ethnographic case studies highlight these similarities and differences, and introduce students to how anthropologists do their work, employ professional anthropological research ethics and apply their perspectives and skills to understand humans around the globe. (C-ID ANTH 120).

ANTH 4H - Honors Cultural Anthropology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This honors level course explores how anthropologists study and compare human culture. Cultural anthropologists seek to understand the broad arc of human experience focusing on a set of central issues: how people around the world make their living (subsistence patterns); how they organize themselves socially, politically and economically; how they communicate; how they relate to each other through family and kinship ties; what they believe about the world (belief systems); how they express themselves creatively (expressive culture); how they make distinctions among themselves such as through applying gender, racial and ethnic identity labels; how they have shaped and been shaped by social inequalities such as colonialism; and how they navigate culture change and processes of globalization that affect us all. Ethnographic case studies highlight these similarities and differences, and introduce students to how anthropologists do their work, employ professional anthropological research ethics and apply their perspectives and skills to understand humans around the globe. (C-ID ANTH 120) Graded Only.

ANTH 13 - Magic, Witchcraft and Religion **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a cross-cultural study of the forms and functions of supernatural beliefs and rituals in contemporary and historical societies. The course focuses on non-western societies and their religious systems. Descriptive anthropological methods (ethnography and ethnology) are discussed as important aspects of the study of belief systems cross-culturally. Moreover, various theoretical models are employed to inform the study of beliefs and practices associated with both nonwestern and western societies. An integrated view of religion is taken to demonstrate how belief in supernatural forces reflects other cultural patterns of behavior and thinking. For example, religion is integrated with such areas of basic human concern as subsistence practices, social organization, and culture changes that arise in contact situations.

ANTH 14 - Language and Culture **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of the foundations of linguistic anthropology. Basic concepts, methods, and forms of analysis associated with linguistic anthropology are covered. Emphases will be placed on such areas of inquiry as the origins of human language and communication, language acquisition, how linguists describe and compare different language systems, how historical relationships among the world's languages are determined, understanding the use of language across social and situational contexts (sociolinguistics), and cross-cultural communication.

ANTH 16 - Archaeology and Ancient Societies **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to the study of concepts, theories, data and models of anthropological archaeology that contribute to our knowledge of the human past. The course includes a discussion of the nature of scientific inquiry; the history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences. (C-ID ANTH 150).

ANTH 17 - Introduction to Linguistics **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of linguistics. The focus is on the description, analysis, and theoretical modeling of various world language systems. Topics will include an introduction to the field of linguistics, the historical development of linguistic inquiry, language acquisition, historical/comparative linguistics and world language systems, phonology, language morphology, syntax, semantics, language in social context(s), discourse analysis, theoretical orientations, literacy process, and applied linguistics. Content for this course will be derived from the work of scholars around the world, including the distinctive contributions of women linguists with a focus on gender and language.

ANTH 18 - World Cultures **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of the world's culture areas as described and conceptualized by cultural anthropologists. While the course has a significant geographical component, emphasis is placed on an anthropological perspective on cultural dynamics in terms of general subsistence patterns, sociopolitical organization, and the increased globalization over time of the world's cultural systems. Societal types such as hunter gatherers, horticulturalists, pastoralists, intensive agriculturalists, and industrialists are described and compared from an anthropological perspective. Culture contact and change models are also included as a substantive part of the course content.

ANTH 32 - Native Americans **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is designed to provide students with a detailed knowledge of prehistoric and early historic cultures of the Native Americans of North America. This will include the study of their origins, language families, traditional and transitional cultural patterns, the impact of Euroamerican populations, and a survey of the various natural and cultural regions of North America.

ANTH 33 - Ancient Mesoamerica **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a comparative survey of the precontact cultural traditions of Mesoamerica. Mesoamerica includes all of the central, southern Mexico, the Yucatan Peninsula, the northern regions of Central America. Emphasis is placed on cultural evolution as exemplified through the cultural development and subsequent decline of such traditions as the Olmec, Maya, Zapotec, and Aztec (among others). Comparisons to precontact South American traditions are included.

ANTH 34 - Native Americans Today **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of contemporary issues associated with Native American culture process. The course will focus on economic, political, health, and identify issues as these reflect changes in sociocultural dynamics for Native American populations, from roughly the 1890s through to the present. In addition, the course will focus on legal strategies and actual responses taken by various activist Native American groups as a function of cultural adaptation to Euroamerican westward expansion and subsequent domination of North America.

ANTH 95 - Special Studies-ANTH **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Art (ART)

Course Families

Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or 'W') within each family group.

Ceramics : ART 50, 52, 54, 56
Drawing : ART 8, 11, 14, 15, 16
Painting : ART 17, 18, 19
Printmaking : ART 22, 23
Sculpture : ART 60, 63
Visual Art Fundamentals : ART 7, 9
Weaving : ART 81

ART 1 - Art Appreciation **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course provides a general introduction to art that offers a look at works of art through the study of theory, terminology, themes, design principles, media, techniques, with an introduction to the visual arts across time and diverse cultures. (C-ID ARTH 100).

ART 2 - Art History Survey I **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course provides an overview of western art and architecture from prehistory through the medieval period within their historical and cultural contexts. (C-ID ARTH 110).

ART 2H - Honors Art History Survey I **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This is an Honors level Survey of the major visual arts of the Ancient World through the Middle Ages. Through a process of thorough analysis, critical thinking, extended discussions, and original oral and written responses, students will examine the arts of painting, sculpture, and architecture within their historical and cultural contexts. (C-ID ARTH 110). Graded Only.

ART 3 - Asian Art History Survey **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course provides a select overview of art and architecture from India, Southeast Asia, China, Korea, and Japan from pre-history to modern times. (C-ID ARTH 130).

ART 4 - Art History Survey II **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course provides an overview of art and architecture from the Renaissance to the Contemporary period within their historical and cultural contexts. (C-ID ARTH 120).

ART 4H - Honors Art History Survey II **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This is an Honors level survey of the major visual arts of the Renaissance and the Modern World. Through a process of thorough analysis, critical thinking, extended discussions, and original oral and written responses, students will examine the arts of painting, sculpture, and architecture within their historical and cultural contexts. (C-ID ARTH 120). Graded Only.

ART 5 - Survey of Modern Art **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course provides an overview of art and architecture from the Western modern period of the 19th and 20th centuries. (C-ID ARTH 150).

ART 6 - African, Oceanic, and Native American Art History Survey **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of visual culture within select regions in Africa, Oceania, and indigenous North America. (C-ID ARTH 140).

ART 7 - 2-D Foundations **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an introduction to the concepts, applications, and historical references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Students develop visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments. (C-ID ARTS 100).

ART 8 - Basic Drawing **3 Unit(s)**
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is an introduction to principles, elements, and practices of drawing, employing a wide range of subject matter and drawing media. Focus on perceptually based drawing, observational skills, technical abilities, and creative responses is placed on materials and subject matter. (C-ID ARTS 110)

ART 9 - 3-D Foundation **3 Unit(s)**
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is an introduction to the concepts, applications, and historical references related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three-dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for non-representational three-dimensional studio projects. (C-ID ARTS 101).

ART 11 - Intermediate Drawing **3 Unit(s)**
Prerequisite(s): ART 8
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is an exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing. (C-ID ARTS 205).

ART 14 - Basic Figure Drawing **3 Unit(s)**
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is an introduction to drawing the human figure from observation using a wide variety of drawing media and techniques. Topics include an introduction to human anatomy and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure. (C-ID ARTS 200).

ART 15 - Intermediate Figure Drawing **3 Unit(s)**
Prerequisite(s): ART 14
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is a continuation of Beginning Figure Drawing (ART 14). It will enhance students' techniques, approaches and practices in drawing the human figure. students will further develop skills and knowledge emphasis on composition and media development. Drawings will be done from live nude models.

ART 16 - Advanced Figure Drawing **3 Unit(s)**
Prerequisite(s): ART 15
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is a continuation of skills and drawing principals introduced in ART 14 and ART 15. Traditional and contemporary methods and techniques of composition will be introduced. Emphasis will be placed on the development of a personal style and the various uses of the human figure in contemporary art.

ART 17 - Beginning Painting **3 Unit(s)**
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is an introduction to principles, elements, and practices of painting. Focus is on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter. (C-ID ARTS 210).

ART 18 - Intermediate Painting **3 Unit(s)**
Prerequisite(s): ART 17
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is a continuation of ART 17. Students continue practicing the techniques of painting, focusing on exploring painting materials, perceptual skills and color theory, paint mixing and painting techniques, as well as creative responses to materials and subject matter.

ART 19 - Advanced Painting **3 Unit(s)**
Prerequisite(s): ART 18
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This is an advanced painting course. Students continue practicing the techniques of painting, focusing on the development of advanced technical skills and advanced applications of materials and processes using paint and mixed media.

ART 22 - Screen Printing **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course explores the materials and methods of water-based fine art screen-printing on paper. An emphasis will be placed on the creative interpretation of various subject matter, concept and technical skill. This course is designed for art majors and minors who wish to develop a personalized statement in the graphic medium.

ART 23 - Introduction to Printmaking **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an introduction to the basic materials, equipment, and processes of printmaking, including relief (linocut and woodcut), intaglio (drypoint, etching, and collagraph), planography (lithography and monotype), and stencil (screenprint).

ART 31 - Graphic Design I **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the general field of graphic design. Students will explore and apply professional skills in design, layout, and production. Areas of study will include advertising design and layouts, corporate identity, publication design, packaging and producing print-ready artwork.

ART 32 - Creative Typography **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the technical and aesthetic fundamentals of typography and their relationship to the design of effective visual communications. It also includes the study of the letterform, typefaces, copy fitting, software and specification emphasis on creative application.

ART 34 - Graphic Design II **3 Unit(s)**
Prerequisite(s): ART 31
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This is an intermediate course in graphic design. Students will apply design principles and tools of graphic design learned in ART 31 and ART 32. Concentration is on increasing skill levels for developing advanced design techniques for print and online.

ART 35 - Illustration Art I **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the study and practice of illustration art. Students will investigate both contemporary and historical illustration art. Various media and techniques used in illustration art will be explored. Students will gain an understanding of how illustration is used in client projects, and how to market their skills to clients in the print and online design industries.

ART 36 - Illustration Art II **3 Unit(s)**
Prerequisite(s): ART 35
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This is an intermediate course in illustration that focuses on the application of traditional and digital techniques. Students design and produce real-world client projects. Students are also introduced to the business of illustration and career paths for illustrators.

ART 39 - Business of Graphic Design **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an introduction to the business of graphic design and related fields, concentrating on professional issues and relationships with clients, art directors, advertising agencies, printers, representatives, and brokers.

ART 50 - Beginning Ceramics **3 Unit(s)**
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is an introduction to ceramics materials, concepts, and processes, including basic design principles, creative development, hand-building, throwing (potter's wheel), glaze techniques, firing and ceramic terminology. Students will experiment with a variety of forms, glazes, and other surface treatments, and will be introduced to historical as well as contemporary ceramic artworks.

ART 52 - Intermediate Ceramics **3 Unit(s)**
Prerequisite(s): ART 50
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is an exploration of clay as a medium of expression, using the potter's wheel and/or hand-building techniques to create sculptural and functional forms. Students will continue to develop techniques in basic wheel-throwing and/or hand-building, clay body formulation, surface enrichment techniques, and kiln firing. Students will also become familiar with historical as well as contemporary ceramic artworks.

ART 54 - Ceramics-Low Fire **3 Unit(s)**
Prerequisite(s): ART 50
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course expands on the hand-building and wheel-throwing skills learned in the introductory class, with an emphasis on a variety of low-fire glaze and surface techniques, setting up additional possibilities for creative expression.

ART 56 - Advanced Ceramics **3 Unit(s)**
Prerequisite(s): ART 52
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is an in-depth exploration of clay as a medium of expression, with emphasis on individual ideas and directions. Students will concentrate on creating a personal vocabulary of imagery, construction methods, and surface treatments, and will develop and draw upon a broad awareness of historical as well as contemporary ceramic artworks.

ART 60 - Beginning Sculpture **3 Unit(s)**
Transfer Status: CSU/UC 25.5 hours Lecture / 76.5 hours Lab
This course is an introduction to three-dimensional sculptural principles, techniques, and concepts utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context.

ART 63 - Intermediate Sculpture, Clay **3 Unit(s)**
Prerequisite(s): ART 60
Transfer Status: CSU 25.5 hours Lecture / 76.5 hours Lab
This course focuses on the production of sculpture through the combination of clay with wood, metal, "found" objects, and other materials. The aesthetic and technical aspects of construction and combination of materials will be emphasized, as well as hand-building, clay making and firing techniques, welding, and kiln building. Contemporary artists will be discussed and emphasis placed on art created in a Postmodern world, and especially how clay, combined with other media fit into that world.

ART 70 - Gallery Production/Business of Art **2 Unit(s)**
Transfer Status: CSU 25.5 hours Lecture / 25.5 hours Lab
This course will deal with the various aspects of operating an educationally directed art gallery including scheduling, lighting, publicity, security, budget, receptions, show themes and reviews. The Butte College Coyote Gallery will function as the class laboratory, and approximately two to three shows will be organized and installed each semester. (Annual student show in Spring semester). In addition, students will learn the business of art in order to be able to successfully compete in the professional market place.

ART 81 - Introduction to Fiber Arts **3 Unit(s)**
Transfer Status: CSU 25.5 hours Lecture / 76.5 hours Lab
This course is an introduction to basic materials, methods and vocabulary used in fiber and textile media as well as the hands-on development of expressive visual ideas. Contemporary and historical development and cultural relevance of the fiber media is also explored. (C-ID ARTS 282).

ART 95 - Special Studies-ART **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

ART 99 - Work Experience-ART **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

American Sign Language (ASL)

ASL 1 - American Sign Language I **4 Unit(s)**
Transfer Status: CSU/UC 68 hours Lecture
This course is the first of a two part introductory course in American Sign Language (ASL) as it is used within Deaf culture. Topics include basic linguistic structures, facial grammar and fingerspelling as it is used at the novice level. Emphasis is placed on the development of ASL and receptive skills. Students who have completed at least one year of high school ASL with a letter grade of "A" or "B" within one year of the present date, may upon approval of instructor, register for ASL II.

ASL 2 - American Sign Language II **4 Unit(s)**
Prerequisite(s): ASL 1
Transfer Status: CSU/UC 68 hours Lecture
This course is the second half of a two part introductory course in American Sign Language (ASL) as it is used within the Deaf culture. ASL 2 continues to develop the student's use of appropriate linguistics and cultural principles of ASL. Instruction will further student's language development by emphasizing receptive and expressive skills. Intermediate vocabulary, grammar, non-manual behaviors and fingerspelling will be taught.

ASL 3 - American Sign Language III **4 Unit(s)**
Prerequisite(s): ASL 2
Transfer Status: CSU/UC 68 hours Lecture
This course is an intermediate American Sign Language (ASL) which further develops receptive and expressive skills, teaches appropriate linguistic features and gives further exposure to Deaf Culture. This course utilizes a practice oriented approach to language acquisition with demonstration of more advanced grammatical features of ASL including conditional and contrastive structure sentence types, recurring and continuous time signs, temporal aspect and narrative structure. Students' fluency and accuracy in fingerspelling and numbers will increase.

ASL 10 - Introduction to American Deaf Culture **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to the American Deaf Culture and Deafhood. Emphasis will be placed on the history, community, and the language used within the American Deaf culture: American Sign Language. The values, traditions and diversity in American Deaf Culture will be explored as a linguistic and cultural minority through the dynamics between oppressed/oppressor peoples, past and current trends in deaf education, services for the deaf, legislation, and technology. Group identity and group liberation will be discussed. Taught in American Sign Language with an ASL/English interpreter.

Automotive Technology (AUT)

AUT 1 - Introduction to Automotive Technology **4 Unit(s)**
Transfer Status: CSU 68 hours Lecture
This course introduces students to the automotive field and the electrical/mechanical systems found in today's automobile. This course will cover safety related practices, the principles of operation and system service procedures for all systems found on today's cars.

AUT 2 - Honda Express Service **2 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 51 hours Lab
This course teaches students the maintenance procedures used in Honda Express Service. Students will learn basic automotive shop safety, tool and equipment use, and the steps to research vehicle service information. Pass/No Pass Only.

AUT 3 - Honda PACT Specialized Automotive Electronics **6 Unit(s)**
Transfer Status: CSU 68 hours Lecture / 102 hours Lab
This course teaches students the fundamentals of electricity and electronics used currently in the Automotive industry, including semi-conductors and microcomputers,with a focus on Honda and Acura automobiles. Electrical measuring devices, wire repair, circuits, schematics and practical diagnostic procedures are emphasized. Microcomputer inputs, processing, outputs, testing, and operation will be explained. Students will acquire the fundamental knowledge and skills to diagnose and service modern automotive manufacture specific electrical and electronic systems. The manufacturer-specific scan tools will be emphasized along with the advanced diagnostic routines needed to correct circuit anomalies such as shorts, opens, and parasitic draws.

AUT 6 - Automotive Electrical Systems Lecture **2 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 7
Transfer Status: CSU 35 hours Lecture
This course introduces the theory, operation, and repair in the areas of electrical/electronics systems. Battery function and diagnosis including hybrid vehicle battery function and charging are covered. Topics also include vehicle lighting systems, starting and charging systems, and the electrical accessories that function in a modern vehicle.

AUT 7 - Automotive Electrical Systems Lab **2 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 6
Transfer Status: CSU 105 hours Lab
In this course students will develop and demonstrate the hands-on skills needed to repair automotive electrical/electronics systems. Topics include verification, diagnosis and repair of vehicle charging and starting systems, lighting systems, and electrical accessories, including hybrid vehicles.

AUT 8 - Auto Engines Lecture **2.5 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 9
Transfer Status: CSU 45 hours Lecture
This course covers the operation, design, construction, fault diagnosis, service and repair procedures of the internal combustion engine.

AUT 9 - Automotive Engines Lab **2.5 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 8
Transfer Status: CSU 135 hours Lab
In this course students will develop and demonstrate the hands-on skills needed to repair the internal combustion engine and related components. Students will learn the proper use of hand and power tools and test equipment used in the automotive industry.

AUT 20 - Automotive Brakes/Suspension and Steering Systems Lecture **3 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 21
Transfer Status: CSU 50 hours Lecture
This course introduces the theory, operation, and repair in the areas of base brake systems, anti-lock brake systems, and steering and suspension systems. Topics include: the application of Pascal's Law, disk brake systems and their related components, drum brake systems, anti-lock brake system operation and repair, suspension system operation and repair including electronic suspension and steering systems.

AUT 21 - Automotive Brakes/Suspension and Steering Systems Lab **3 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 20
Transfer Status: CSU 150 hours Lab
In this course students will develop and demonstrate the hands-on skills needed to verify, diagnose and repair vehicle systems, sub systems, and components. Topics include: brake systems including both drum and disc brake systems, Anti-lock Brake Systems (ABS), steering and suspension systems, and electronic steering and suspension systems.

AUT 22 - Automotive Heating and Air Conditioning Lecture **2 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 23
Transfer Status: CSU 40 hours Lecture
In this course students study the theory and principles of operation of automotive Heating, Ventilation and Air Conditioning (HVAC) systems as well as engine cooling system operation and repair. Basic laws of heat transfer, refrigeration and compression/expansion of liquid/vapor are introduced.

AUT 23 - Automotive Heating and Air Conditioning Lab **2 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 22
Transfer Status: CSU 120 hours Lab
In this course students will develop and demonstrate the hands-on skills required to diagnose, adjust, repair and maintain modern automotive Heating, Ventilation and Air Conditioning (HVAC) and engine cooling systems. Students will use modern test equipment for diagnosis. Specific skills are developed by the use of special tools used in servicing and repair of automotive HVAC and engine cooling systems.

AUT 30 - Engine Performance and Emission Controls Lecture **5 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 31
Transfer Status: CSU 85 hours Lecture
This course introduces the theory, operation, and repair of the ignition, fuel, engine management, and emission control systems. This course is designed to help prepare the student to take the California State Smog Check Inspector and Repair Technician Licensing exams.

AUT 31 - Engine Performance and Emission Controls Lab **5 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 30
Transfer Status: CSU 255 hours Lab
In this course, students will develop and demonstrate the hands-on skills needed to diagnose and repair the ignition, fuel, engine management, and emission control systems used in today's vehicles. The student will also perform various emission control inspections (Smog Check) and perform diagnosis and repair of Smog Check failures, as per California Bureau of Automotive Repair (BAR) standards. This instruction will help prepare the student to take the California State Smog Check Inspector and Repair Technician Licensing Exams.

AUT 41 - Specialized Automotive Electronics and Microcomputers **5.5 Unit(s)**
Transfer Status: CSU 68 hours Lecture / 76.5 hours Lab
This course teaches students the fundamentals of electricity and electronics, including semi-conductors and microcomputers, as they are used in the automotive industry. Electrical measuring devices, wire repair, circuits, schematics and practical diagnostic procedures are emphasized. Microcomputer inputs, processing, outputs, testing, and operation will be explained. Students will acquire the fundamental knowledge and skills to diagnose and service modern automotive electrical and electronic systems.

AUT 42 - Advanced Specialized Automotive Electronics and Microcomputers **5.5 Unit(s)**
Prerequisite(s): AUT 41
Transfer Status: CSU 68 hours Lecture / 76.5 hours Lab
This course is a continuation of AUT 41 and in this course the student will build upon fundamentals of electricity gained in AUT 41 to develop logical, strategy-based diagnostic routines. These routines will be used to diagnose electrical faults found in Hybrid, PZEV (Partial Zero Emissions Vehicle), gasoline, diesel and alternative fuel vehicles. The manufacturer-specific scan tools will be emphasized along with the advanced diagnostic routines needed to correct circuit anomalies such as shorts, opens, and parasitic draws. Multiplex systems will be discussed including their analog and digital inputs and outputs. This course will provide the student with the knowledge and understanding of manufacture specific electrical systems found in modern vehicles.

AUT 52 - Automatic Transmissions/Transaxles Lecture **3 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 53
Transfer Status: CSU 50 hours Lecture
This course provides theory and principles of operation in automatic transmissions/transaxles, to include diagnostic, testing and repair of each system.

AUT 53 - Automatic Transmissions/Transaxles Lab **3 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 52
Transfer Status: CSU 150 hours Lab
This course enhances skills in diagnosing, testing, and repair procedures of automotive transmissions/transaxles, drive lines and axles. Shop practice includes diagnostics, testing, and repairing of each system.

AUT 56 - Manual Transmissions/Drivetrains Lecture **2 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 57
Transfer Status: CSU 35 hours Lecture
This course provides theory and principles of operation in automotive manual transmissions/transaxles, drive lines and axles. Shop practice includes diagnostics, testing, and repairing of each system.

AUT 57 - Manual Transmissions/Drivetrains Lab **2 Unit(s)**
Prerequisite(s): AUT 41 (or concurrent enrollment)
Co-requisite(s): AUT 56
Transfer Status: CSU 105 hours Lab
This course provides theory and principles of operation in manual transmissions and transaxles, front and rear axles, drive lines and transfer cases. Shop practice includes diagnostics, testing, and repairing of each system.

AUT 60 - Hybrid and Alternative Fuel Technologies **4 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course covers the theory of operation and service of alternative fuel and hybrid powered cars and light trucks. Topics include fuel tank and battery inspection service, regenerative braking systems, motor/generator and transmission, and fuel cell technologies. Emphasis is placed on safety precautions necessary when servicing hybrid and alternative fueled vehicles. Students will be working on and around the high voltage electrical system on hybrid vehicles. Due to the potential for electrical shock, students must demonstrate an understanding of electrical theory and safety by successfully passing the AUT 60 entrance exam with a score of 70% or more on the first day of class. Students who do not pass the AUT 60 entrance exam will be disenrolled from the course.

AUT 71 - Introduction to Clean Diesel Technology **6 Unit(s)**
Co-requisite(s): AUT 41
Transfer Status: CSU 51 hours Lecture / 153 hours Lab
This course introduces the field of clean diesel technology and of preventative maintenance. It covers proper safety and hazardous waste training, use of basic hand and power tools, and the fundamental workings of the diesel engine.

AUT 72 - Diesel Engine Performance **6 Unit(s)**
Prerequisite(s): AUT 41 or concurrent enrollment in AUT 41
Transfer Status: CSU 51 hours Lecture / 153 hours Lab
This course develops the skills needed to diagnose and repair the computer controlled oil, fuel, and emission systems found on current over-the-road diesel powered vehicles. Assignments will prepare students for employment in the medium and heavy diesel vehicle industry. Upon successful completion of this course the student will be prepared to take both the California State Smog Exam and the Automotive Service Excellence (ASE) tests related to diesel engine performance.

AUT 73 - Fundamentals Of Over The Road Diesel Vehicles Lecture **5 Unit(s)**
Prerequisite(s): AUT 41, AUT 72 or concurrent enrollment in AUT 41 or AUT 72
Co-requisite(s): AUT 74
Transfer Status: CSU 85 hours Lecture
This course develops the skills needed to safely diagnose and repair the systems and sub-systems specific to over-the-road diesel powered vehicles. Topics will include: Diagnosing problems in mechanical, electrical, and electronic systems with industry standard test equipment; Troubleshooting the sophisticated electronic controls that govern engine performance and horsepower as well as transmission and braking systems; Troubleshooting steering, hydraulic, pneumatic systems, brakes, axles, differentials, electric motors, and compressors.

AUT 74 - Fundamentals Of Over The Road Diesel Vehicles Lab **5 Unit(s)**
Prerequisite(s): AUT 41, AUT 72 or concurrent enrollment in AUT 41 or AUT 72
Co-requisite(s): AUT 73
Transfer Status: CSU 255 hours Lab
In this course, students will develop and demonstrate safe work habits along with the hands-on skills needed to diagnose and repair refrigeration units, mobile hydraulic components, heavy duty powertrain units, and truck wheel alignments. Emphasis will be placed on the ability to accurately perform maintenance and safety inspections in a timely manner.

AUT 97 - Special Problems-AUT **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

AUT 99 - Work Experience-AUT **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

AUT 114 - Auto Body Repair **3 Unit(s)**
Transfer Status: NT 25.5 hours Lecture / 76.5 hours Lab
In this course students learn the tools and procedures used in the repair of minor automotive collision damage. Topics include welding and hydraulic tools, jointing and shrinking techniques, aligning systems, and fillers. Proper tool usage, care and safety are emphasized.

AUT 115 - Automotive Painting **3 Unit(s)**
Transfer Status: NT 25.5 hours Lecture / 76.5 hours Lab
In this course students learn the materials, tools and procedures used in the refinishing of automobiles. Topics include, surface preparations, subcoats, primers and sealers, topcoats, and spot painting. Shop safety is emphasized.

AUT 200 - Chassis, Engines, Electrical, Auto Skills Practice **0.5 - 1 Unit(s)**
Co-requisite(s): Must be enrolled in a minimum of 2 units of AUT courses (excluding AUT 1, AUT 41)
Transfer Status: NT 25.5 - 51 hours Lab
This class is a supervised lab experience designed to update and enhance technical skills in the following areas: Engines, Brakes/Chassis, Electrical, and Heating/Air Conditioning (AC) Systems. Instruction will be a combination of laboratory demonstrations and skills practice. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 1.00 units. Pass/No Pass Only. Open Entry/Open Exit.

AUT 201 - Emissions and Transmissions Auto Skills Practice **0.5 - 1 Unit(s)**
Co-requisite(s): Must be enrolled in a minimum of 2 units of AUT courses (excluding AUT 1, AUT 41)
Transfer Status: NT 25.5 - 51 hours Lab
This course is a supervised lab experience designed to update and enhance technical skills in one or more of the following areas: Electrical, Computer/Emission Controls, Drivability and Transmissions/Drive Trains. Instruction will be a combination of laboratory demonstrations and skills practice. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 1.00 units. Pass/No Pass Only. Open Entry/Open Exit.

Business Computer Information Systems (BCIS)

BCIS 12 - Business Writing Skills **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course covers the basic knowledge and skills necessary for effective written communication for the workplace. The focus of this course is on the mechanics of business writing by applying rules of standard business document formatting, proper sentence structure, coherent paragraph development, correct grammar and punctuation, proofreading, and professional writing style as required for professional work environments.

BCIS 13 - Business Communication **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course applies the principles of creating ethical and effective business communication to letters, memos, emails, and written and oral reports. The course emphasizes planning, organizing, composing, and revising business documents utilizing appropriate software to prepare and deliver written documents and professional-level oral reports.

BCIS 15 - Web-based Tools for Business **3 Unit(s)**
Transfer Status: CSU 42.5 hours Lecture / 25.5 hours Lab
This course examines the role that the end-user plays in monitoring, maintaining, and managing the web-based technology tools being used by businesses to improve and support collaboration, communication, and processes. Web-based tools and services used in business, including those used for communication, collaboration, social media, storage, and live support will be examined and applied. Tools such as OneDrive, Skype and Twitter will be used.

BCIS 18 - Introduction to Business Technology **3 Unit(s)**
Transfer Status: CSU 42.5 hours Lecture / 25.5 hours Lab
This course is an examination of information and communication technologies used in today's businesses and the impact these technologies are having on today's workplaces. The course will include examination and application of a wide range of information and communication technology tools used to support and enhance business functions and processes. Focus will be placed on solving a variety of business problems, improving organizational productivity, and achieving the goals of business.

BCIS 20 - Beginning Keyboarding **1.5 Unit(s)**
Transfer Status: CSU 10.5 hours Lecture / 40.5 hours Lab
This course is designed for the student who has had little or no previous training in the operation of a keyboard. Students learn to type by touch, to use appropriate keyboarding techniques, and to develop speed and accuracy.

BCIS 24 - Advanced Keyboarding **1.5 Unit(s)**
Prerequisite(s): BCIS 20
Transfer Status: CSU 10.5 hours Lecture / 40.5 hours Lab
This course builds on basic keyboarding skills by reinforcing both proper keyboarding and effective speed building techniques in order for the student to reach an employable typing speed. Emphasis is placed on developing straight copy and production skills with minimum errors at increased speeds. Keyboarding strengths and weaknesses will be diagnosed, followed by prescriptive drills to address the issues. Topics include review of alphabet keystroke, word level, capital letter, alternate-hand, punctuation, number, symbol, and horizontal/vertical reaches.

BCIS 28 - Microsoft Word for Windows **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course covers a recent version of Microsoft Word for Windows for students who have an understanding of computers and desire comprehensive knowledge of word processing. Course content includes creating and formatting documents; creating and modifying headers and footers; inserting objects such as clipart and images; creating and modifying tables; merging documents to create letters, envelopes and labels; creating charts; proofing documents; and automating formatting.

BCIS 31 - Business Presentation Software **1 Unit(s)**
Transfer Status: CSU 12.75 hours Lecture / 12.75 hours Lab
In this course, students will examine the strategies applied when planning, preparing, and creating business presentations and use features of business presentation software to design and deliver high-quality presentations. PowerPoint is the primary presentation software to be used in this course; however, students will be introduced to other presentation software being used in the workplace.

BCIS 33 - Skills for the Working Professional **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
This course introduces students to identifying essential external and internal communication skills, managing conflict, developing a positive attitude, and creating the professional image for the workplace.

BCIS 46 - Business Math Calculations **2 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 17 hours Lab
In this course, students use the features of an electronic calculator to solve business math problems including retail calculations, payroll, and installment buying. Students will develop Ten-Key speed and accuracy using the touch method.

BCIS 47 - Desktop Publishing **2 Unit(s)**
Transfer Status: CSU 25.5 hours Lecture / 25.5 hours Lab
In this course, students will examine the design principles and elements applied when creating printed documents and use desktop publishing software to create high-quality printed business publications such as newsletters, brochures, and flyers.

BCIS 50 - Office Administration **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to the skills, traits, and attitudes of the successful administrative professional. Discussion topics include time and stress management, personal appearance, communication, records handling, mail, and financial management. In addition, students will complete projects in the areas of travel, minute taking, meeting planning, and effective job search techniques.

BCIS 51 - Records Management **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to the increasingly complex field of records management. The class emphasizes the importance of effective records management for all types of documents from their creation or receipt, through their processing, distribution, organization, storage, and retrieval, to their ultimate disposition. Students will investigate the management functions necessary to operate a records management program effectively.

BCIS 59 - Beginning Legal Office Procedures **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces legal terminology, preparation of legal documents and correspondence, and court scheduling. Emphasis is placed on developing legal vocabulary, enhancing legal communication skills, building strong problem-solving techniques, and utilizing technical abilities in a legal office setting.

BCIS 60 - Advanced Legal Office Procedures **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course prepares the student for employment as an administrative assistant in a law office. Students are given specialized training to assist lawyers in litigation involving family, civil, personal injury, property damage, probate, and corporate law.

BCIS 70K - Adobe Acrobat Professional **1 Unit(s)**
Transfer Status: CSU 12.75 hours Lecture / 12.75 hours Lab
This course introduces students to Adobe Acrobat software. The course includes an overview of all Adobe Acrobat products and their functionality. It offers instruction and application of Portable Document Format (PDF) creation from multiple sources, modifying existing PDF documents, and creating forms. Students will need access to Adobe Acrobat to successfully complete this course.

BCIS 70L - Introduction to Microsoft Outlook **1 Unit(s)**
Transfer Status: CSU 12.75 hours Lecture / 12.75 hours Lab
In this course, students will be introduced to Microsoft Office Outlook and its use as a Personal Information Management (PIM) business tool to organize and manage e-mail messages, appointments, meetings, contacts, and tasks.

BCIS 81 - Microsoft Excel for Business **1 Unit(s)**
Transfer Status: CSU 12.75 hours Lecture / 12.75 hours Lab
This course is designed for those who want to learn Microsoft Excel for Windows from the perspective of owning or running a business. Course content includes designing and analyzing worksheets and using formulas and functions with an emphasis on accounting principles.

BCIS 84 - Basics of Computers **1 Unit(s)**
Transfer Status: CSU 12.5 hours Lecture / 12.5 hours Lab
This course provides students who have limited personal computer experience with the basic technology skills needed to customize the Windows operating system user interface; manage files, folders, disks, and drives; operate basic Windows programs; and use basic search features of the Internet Explorer browser to locate information. The focus of this course is on preparing those students who are pursuing careers in business environments.

BCIS 85 - Microsoft Excel for Windows **3 Unit(s)**
Prerequisite(s): BCIS 18
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course covers a recent version of Microsoft Excel for Windows for students who have an understanding of computers and desire comprehensive knowledge of spreadsheets. Course content includes creating, formatting, and maintaining worksheets; using financial formulas and functions; creating and modifying charts; using visual enhancements; working with templates; working with tables and data tools; and creating pivot charts.

BCIS 86 - Microsoft Access for Windows **2 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 51 hours Lab
This course covers a recent version of Microsoft Access for Windows for students who have an understanding of computers and desire comprehensive knowledge of relational databases. Course content includes designing, creating and maintaining databases; importing and exporting data; modifying and filtering data; creating and using custom forms and reports; and running queries.

BCIS 97 - Special Problems-BCIS **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

BCIS 99 - Work Experience-BCIS **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Biological Sciences (BIOL)

BIOL 1 - Introduction to Biology **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course is a survey of the basic principles and concepts used by biologists to explain how organisms live and survive. Topics include ecology, a survey of the worlds organisms, genetics, evolution, cell structure and function, and energy conversions.

BIOL 2 - Introduction to Human Biology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to the basic principles of biology focusing on humans as biological organisms. Topics include chemistry; cell and tissue structure; human body structure and function; human reproduction and development; human genetics, heredity and evolution; and human ecology. An emphasis is placed on the application of principles to current issues, including common human diseases, genetic engineering, and the impact of humans on the world's ecosystems.

BIOL 5 - Ecology and Field Biology **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course will examine animal and plant species and populations as well as their relationships within communities and ecosystems. Topics include population and community structure, relationships between species, biogeography, and biodiversity. Included is the study of the native plants and animals with an emphasis on Butte County from the valley floor into the adjoining landforms of Northern California. The course includes one field trip per week.

BIOL 7 - Sustaining Life on Earth **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course will introduce students to the structure of earth's ecosystems and to environmental issues, past and present from a biological science perspective. Students will be able to perceive and interpret the relative health of environmental systems, and to connect this to the role of humans in sustaining life on earth. To reach this understanding, students will read classic environmental literature as well as current environmental literature. The course will include discussions, field trips and guest speakers as well as student involvement in a campus or local environmental effort. During this course students will be encouraged to recognize that their lives are dependent upon the environment, and that their personal decisions affect the entire natural world. Graded Only.

BIOL 9 - Current Issues in Biology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to the understanding of basic biological principles and how each of these principles affects daily human life. Biological principles include the scientific method, biological macromolecules, cell structure and function, cell division, genetics, DNA structure and function, metabolism, evolution, and ecology. Issues covered include nutrition, stem cell research, cancer, genetic diseases, cloning, genetic engineering, gene therapy, ecological diversity, invasive species, sustainability, and the impact of humans on the environment.

BIOL 9H - Honors Current Issues in Biology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This is an Honors level Current Issues in Biology course. This course utilizes a process of thorough analysis, critical thinking, extended discussions, and original oral and written responses, to introduce basic biological principles and how each of these principles affects daily human life. Biological principles include the scientific method, biological macromolecules, cell structure and function, cell division, genetics, DNA structure and function, metabolism, evolution, and ecology. Issues covered include nutrition, stem cell research, cancer, genetic diseases, cloning, genetic engineering, gene therapy, ecological diversity, invasive species, sustainability, and the impact of humans on the environment. Graded Only.

BIOL 10 - Survey of Human Systems **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course is intended for students in programs such as Emergency Medical Services and Health Information Management. Topics include fundamentals of the structure and function of the human body from an organ system perspective: Key concepts and basic principles of the chemistry of life, cells and tissues, cell physiology, structural organization and physiological principles in organ systems, system integration, and homeostasis in health and disease. (Not intended for Nursing students).

BIOL 11 - Zoology **5 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This course is intended for majors, and includes a survey of animal phyla and non-photosynthetic, single-celled, eukaryotic taxa. It covers the comparative structure, function, and life cycles of animals, as well as principles of evolution, taxonomy, and systematics. Topics include development, morphology and physiology, phylogeny, and behavior of animals, as well as principles of evolution, mechanisms of evolutionary change, and speciation. (C-ID BIOL 150).

BIOL 12 - Botany **5 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This course is intended for majors and covers comparative diversity, structure, and function of plant, fungal, and protistan phyla. Topics include development, morphology and physiology, taxonomy and systematics. Principles of population and community ecology and ecosystem interactions are emphasized. (C-ID BIOL 155).

BIOL 15 - Introduction to Microbiology **5 Unit(s)**
Prerequisite(s): CHEM 110 or, CHEM 1 or, CHEM 51 and one year high school biology, or, BIOL 1 or, BIOL 2 or, BIOL 20 or, BIOL 21
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This course includes the study of the structure and function of viruses, bacteria, fungi and protozoa, with emphasis on the predominant pathogenic members of those groups. Study of basic organic chemistry, genetics, metabolism, microbe-host interactions, the immune response and etiological factors involved in disease are also included. Methods of detection, identification, isolation, culture, enumeration, and control of microbes are provided. Consideration is also given to applied and environmental microbiology, as well as biotechnology techniques. Graded Only.

BIOL 20 - Human Anatomy **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
Structural organization of the human body: gross and microscopic structure of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, excretory, and reproductive systems, from cellular to organ system levels of organization. This course is primarily intended for nursing, allied health, kinesiology, and other health related majors. (C-ID BIOL 110B).

BIOL 21 - Human Physiology **4 Unit(s)**
Prerequisite(s): BIOL 20 and CHEM 110 or, CHEM 1 or, CHEM 51
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
Study of the physiological principles, function, integration and homeostasis of the human body at the cellular, tissue, organ, organ system and organism level: integumentary system, bone, skeletal, smooth and cardiac muscles, nervous system, sensory organs, cardiovascular system, lymphatic and immune systems, respiratory system, urinary system, digestive system, endocrine system, and reproductive system. This course is primarily intended for Nursing, Allied Health, Kinesiology, and other health related majors. (C-ID BIOL 120B).

BIOL 30 - Anatomical Preparations **1.5 Unit(s)**
Prerequisite(s): BIOL 20
Transfer Status: CSU 17 hours Lecture / 25.5 hours Lab
In this course students dissect a human cadaver and prepare anatomical specimens for use in Butte College Human Anatomy classes. Students will learn proper dissection techniques and pertinent details of the human form needed to complete quality dissection work.

BIOL 41 - Cell and Molecular Biology **5 Unit(s)**
Prerequisite(s): CHEM 1 and MATH 124 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This course is an introductory study of prokaryotic and eukaryotic cell structure and function as well as basic viral structure and reproduction. Attention is given to life processes within cells and to interactions between cells. Coverage includes experimental design and statistical analysis; basic biotechnology concepts and techniques; DNA structure, function, and gene expression; enzyme function; energetics; nutrient cycles in ecosystems; transport mechanisms; cytoskeletal components; cell communication (including nerve impulse conduction and signal transduction); cell reproduction; Mendelian and population genetics; cell evolution; and modern concepts of molecular biology. This course is designed for biology majors. (C-ID BIOL 190)

BIOL 42 - Organismal Biology **5 Unit(s)**
Prerequisite(s): MATH 124 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This course is intended for majors and includes a survey of the biology and diversity of organisms and emphasizes classification, structure and function of organisms. (C-ID BIOL 130S)

BIOL 43 - Ecology and Evolution **5 Unit(s)**
Prerequisite(s): MATH 124 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This course, intended for majors, examines the basic principles governing evolution of organisms and interactions between organisms and the environment, and emphasizes ecological principles and mechanisms of evolution. (C-ID BIOL 130S)

BIOL 95 - Special Studies-BIOL **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

BIOL 99 - Work Experience-BIOL **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Business (BUS)

BUS 8 - Legal Environment of Business **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course covers fundamental legal principles pertaining to business transactions and affecting managerial decisions. It introduces the law as an instrument of social and political control in society. Topics include sources of law and ethics, contracts, torts, agency, judicial and administrative processes, employment law, forms of business organizations, and domestic and international governmental regulations. (C-ID BUS 120).

BUS 18 - Database Design **4 Unit(s)**
Transfer Status: CSU 51 hours Lecture / 51 hours Lab
This course is a study of fundamental database design principles and techniques, including data modeling with Entity-Relationship Diagrams (ERD) and the normalization process. Topics include the relational data model, managing data using Structured Query Language (SQL), database management system (DBMS) architecture and operation, and database security mechanisms. Students will apply core concepts and techniques to practical business scenarios.

BUS 20 - Introduction to Business **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is survey of business, providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy and practices within the U.S. and a global society. Students will learn about how this business context (including issues such as ethics and sustainability) influences the primary areas of business including: organizational structure and design; leadership, human resource management, organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, financial practices; the stock and securities market; and therefore affect a business' ability to achieve its organizational goals. (C-ID BUS 110).

BUS 25 - Small Business Management **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course covers the practical considerations, challenges and rewards associated with starting and operating a small business. The course explores how to identify small business opportunities; the factors influencing entrepreneurial success; and financing, marketing, managing, record-keeping and computer applications to support small business operations. Each student will identify a business opportunity, then create a detailed business plan.

BUS 29 - Supervising Employees **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
This course helps students (both supervisors and prospective supervisors) develop insights about how to enhance performance in today's changing workplace. Topics pertain to decision-making, communication, motivation, organizational change and innovation. The focus is on self-assessment, analyzing and understanding work situations, and developing personal supervisory skills and strategies.

BUS 35 - Management and Human Relations **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines the role effective human relations plays in enhancing today's diverse, multi-cultural work environment and facilitating individual and organizational success. This course emphasizes concepts and assessment relating to individual factors (such as personality, attitudes, values, learning style) and to how employees throughout organizations interact with one another (such as communication, leadership styles, conflict resolution approaches). The course enables both managers/supervisors and those not currently in leadership roles to better understand work dynamics and devise appropriate strategies to enhance human relations and organizational and career success.

BUS 40 - Organization Management **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines managerial concepts, approaches and tools relevant for organizations operating in today's changing, diverse, technology-infused and globally-competitive business environment. Within an ethics and contingency management framework, it focuses on three of the fundamental management functions: planning, organizing and controlling. It provides perspectives and guidelines and develops competencies to assist managers in understanding and addressing organizational problems.

BUS 44 - Human Resource Management **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course highlights complex and important issues in current human resources practice, and demonstrates how managers can effectively manage human resources. The course explores Human Resource Management (HRM) issues for today's companies: changing government and legal requirements; new information systems; downsizing; demands for a more skilled workforce; increasing attention to and appreciation for diversity; the global workforce and intensifying global competition; and changing cultural and economic factors.

BUS 50 - Sales in Today's World **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces personal selling concepts, processes and tools. It emphasizes the importance of ethical, professional conduct; an understanding of consumer behavior; needs-satisfaction selling; and effective two-way communication. Students learn how to find and qualify prospects; establish rapport; ask questions to determine customers' needs; present pertinent product/service features, advantages and benefits; overcome buyers' objections; and close the sale. Students will participate (as buyers, sellers and critical observers) in interactive sales presentations.

BUS 60 - Advertising and Copywriting **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to the function of advertising in relation to business and society. It looks at advertising as a social and economic institution. Emphasis is placed on identifying the best strategy and advertising medium to achieve the business objective. Students will plan an advertising campaign including defining a target audience, research markets, select the most effective advertising mediums, select media outlets, estimate the campaign budget and draft advertising copy. The advertising campaign project builds an understanding of traditional and digital advertising, writing radio or podcast copy, and storyboarding for television or digital advertising.

BUS 62 - Money & Happiness: Cultural, Psychological and Economic Factors **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course integrates practical financial decision making with the social, psychological, and physiological contexts in which decisions are made. Students will examine the role of money in their lives, set personal goals, and develop plans to meet those goals. Topics include cultural attitudes and beliefs about money, money and relationships, money personalities, consumerism, debt, healthcare, investing, retirement, long-term care, disability, death, and taxes.

BUS 64 - Principles of Marketing **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course explores the nature, function and importance of marketing. It focuses on conducting opportunity analysis, assessing consumer behavior, engaging in marketing research, and target marketing as the basis for devising marketing objectives and plans. Students will develop and assess marketing strategies to meet the needs of target markets (both consumer and business-to-business (B2B)), using the "4 Ps": product, promotion, price and place (distribution). The emphasis is on ethical, needs-satisfaction, relationship marketing in today's global, technology-infused, competitive environment.

BUS 66 - Retail Management **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course presents essential concepts in the retailing field, from store location and organization to the purchase, handling, display, pricing and advertising of merchandise. Emphasis is placed on the practical concepts of retail management.

BUS 68 - Business on the Internet **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to web marketing tools, strategies, application and measurement. It examines benefits and challenges associated with web marketing technologies including web site development, search engine optimization, online advertising, social media, email campaigns, blog marketing, digital public relations, multimedia and mobile marketing. Students will learn how to create a web marketing strategy and then apply web marketing technologies in a measurable way to achieve business objectives.

BUS 97 - Special Problems-BUS **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

BUS 99 - Work Experience-BUS **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Child Development/Family Relations (CDF)

CDF 12 - Child, Family, and Community **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This is an examination of the process of socialization on the interrelationship of family, school, and community and emphasizing historical and socio-cultural factors. (C-ID CDEV 110).

CDF 14 - Child Growth and Development **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course examines the major physical, cognitive, social and emotional developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between developmental processes and environmental factors including abuse and neglect. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. (C-ID CDEV 100).

CDF 18 - Children with Special Needs **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course covers issues related to children with varying abilities ages birth through eight. Exploring first the history of related legislation and referral process, teaching practices, philosophies of inclusion intervention methods, and then working respectfully with families. Observations in public or private child development centers or schools are required.

CDF 20 - Curriculum for Children with Special Needs **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course covers curriculum and intervention strategies for working with children with special needs in partnership with their families. The use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments is specifically addressed. Topics include the role of the teacher as a professional working with families, collaborating with interdisciplinary teams, increasing cultural competence, and strategies to promote and support success in children within relationship-based childcare and educational settings.

CDF 30 - Adult Supervision and Mentoring in Early Care and Education **2 Unit(s)**
Transfer Status: CSU 34 hours Lecture
This course examines methods and principles of supervising student teachers, staff, and other adults in early care and education settings. Emphasis is on the roles and development of early childhood professionals as mentors and leaders.

CDF 40 - Observation and Assessment **3 Unit(s)**
Prerequisite(s): CDF 14
Transfer Status: CSU 42.5 hours Lecture / 25.5 hours Lab
This course focuses on the appropriate use of assessment and observation tools and strategies to document young children's development and learning. Students will use observation data to inform and plan supportive and developmentally appropriate learning environments and experiences. Recording strategies, rating systems, portfolios, and multiple assessment tools will be explored, along with strategies for collaborating with families and professionals. This course includes 25.5 hours of participation with young children in the Butte College Child Development Center or an approved early childhood Mentor classroom. (C-ID ECE 200).

CDF 44 - Positive Child Guidance **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course teaches students guidance methods and techniques that are effective in the home, classroom and other group settings. Students will learn positive guidance techniques to promote socially responsible behavior and healthy emotional development in children from birth to eight years of age.

CDF 48 - Principles and Practices of Teaching Young Children **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an examination of the underlying theoretical principles of developmentally appropriate practices applied to programs and environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. Early Childhood Education career opportunities and preparation will be examined. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. (C-ID ECE 120).

CDF 56 - Prenatal, Infant, and Toddler Development **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course explores prenatal, infant and toddler development, including physical, cognitive, language, social and emotional growth and development. Students will apply theory and practice to interpret behaviors and interactions between heredity and environmental factors while emphasizing the role of family and relationships in early childhood development.

CDF 57 - Teaching in a Diverse Society **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. (C-ID ECE 230).

CDF 59 - Anti-Bias Curriculum in Early Childhood Programs **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course provides the opportunity for students to explore issues of cultural diversity, examine curricular approaches to anti-bias education, and integrate these elements into the development of comprehensive children's programs. This course also provides the opportunity to explore factors leading to culturally responsive child care and education.

CDF 62 - Creative Art Activities for Children **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course teaches students to plan, prepare and implement the materials and techniques of a creative art curriculum for young children. The course includes specific techniques for working with children, parents, and staff, research of the philosophical bases and developmental stages of children's art, and preparation and utilization of specific art media appropriate for use in early childhood education programs.

CDF 63 - Introduction to Early Childhood Education Curriculum **3 Unit(s)**
Prerequisite(s): CDF 14
Transfer Status: CSU 42.5 hours Lecture / 25.5 hours Lab
This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age eight years. Students will examine a teacher's role in supporting development and fostering the joy of learning for all young children using observation and assessment. An overview of learning domains includes: language, social, emotional, physical, cognitive and creative. The course will provide the student the opportunity to develop, prepare, implement and evaluate developmentally appropriate play-based curriculum for young children. This course includes 25.5 hours of lab in an approved (Butte College or Mentor) program. (C-ID ECE 130).

CDF 65 - Infant/Toddler Curriculum **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course applies current theory and research to the care and education of infants and toddlers in group settings. The essential policies, principles, and effective practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months are also examined.

CDF 78 - Early Childhood Education Practicum **3 Unit(s)**
Prerequisite(s): CDF 40, CDF 63
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This capstone course is a demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning and assessment and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. This course includes fifty-one hours of participation with young children in the Butte College Child Development Center or an approved early childhood Mentor classroom. (C-ID ECE 210).

CDF 80 - Health, Safety and Nutrition **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an introduction to the laws, regulations, standards, policies, and procedures and early childhood curriculum related to child health, safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. This course will focus on integrating the concepts into everyday planning and program development for all children. (C-ID ECE 220).

CDF 84 - Administration I: Programs in Early Childhood Education **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an introduction to the administration of early childhood programs, including program types, budget, management, regulations, laws, development and implementation of policies and procedures. The course will examine administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program. This course partially meets the administrative units required by the State of California to meet licensing requirements and administrative units for the Child Development Permit.

CDF 85 - Admin II: Personnel & Leadership in Early Childhood Education **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course provides effective strategies for personnel management and leadership in early care and education settings. Topics include legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. This course partially meets the administrative units required by the State of California to meet licensing requirements and administrative units for the Child Development Permit.

CDF 88 - Environmental Rating Scales **1.5 Unit(s)**
Transfer Status: CSU 25.5 hours Lecture
This course will increase the knowledge and skills for providers and teachers using Environmental Rating Scales. These rating scales are used by early childhood education programs to complete a self-study and assessment for quality environments. An emphasis will be placed on learning the criterion and applying fundamental course concepts.

CDF 91 - Parenting in Today's Society **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course applies child development research to inform best parenting practices. Students will learn about social and cultural trends of parental practices including the usage of community resources. Topics covered include parenting styles, education, physical/social-emotional and sexual abuse, substance abuse, youth culture, media impact and parenting a special needs child.

CDF 93 - Strengthening Families **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines the roles and responsibilities of professionals collaborating with families. An emphasis is placed on current trends and issues with families parenting children between the ages of 0 to 13 years of age. Topics include family growth and development, family structures, challenges confronting the contemporary family, and strategies to strengthen families.

CDF 97 - Special Problems-CDF **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

CDF 99 - Work Experience-CDF **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

CDF 131 - ECE Mentor Teacher Seminar **0.5 Unit(s)**
Transfer Status: NT 8.5 hours Lecture
This course provides an opportunity for Early Childhood Mentor Teachers to discuss current issues related to their role as supervisors of early childhood student teachers, plan in-service activities and provide professional support for one another. Pass/No Pass Only.

CDF 133 - Director Mentor Seminar **0.5 Unit(s)**
Transfer Status: NT 8.5 hours Lecture
This course will examine the role of a Early Childhood directors, site supervisors, and other administrators of early childhood programs. Topics include the professional ethics, current events, quality improvement efforts, advocacy, supervision of staff, and the mentoring of colleagues. Seminar content will be individualized to meet the needs of participants. This course enables directors to meet their required professional development hours. Pass/No Pass Only.

Chemistry (CHEM)

CHEM 1 - General Chemistry I **5 Unit(s)**
Prerequisite(s): CHEM 110 or one year of high school chemistry and MATH 124 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This course introduces students to the basic principles of chemistry with a quantitative emphasis. Topics include atomic theory, chemical bonding, molecular geometry, chemical reactions, stoichiometry, gases, thermochemistry, intermolecular forces and solutions. This is the first semester of a one-year course in chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine), mathematics, and engineering. The two-semester sequence of CHEM 1 and CHEM 2 provides the basic chemical background needed for further investigations into our physical environment. (C-ID CHEM 110/120S). Graded Only.

CHEM 2 - General Chemistry II **5 Unit(s)**
Prerequisite(s): CHEM 1
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This course is a continuation of CHEM 1, General Chemistry I. Topics include chemical kinetics and equilibrium, acid-base and solubility equilibria, thermodynamics, oxidation-reduction, electrochemistry, coordination compounds, nuclear chemistry, introduction to organic chemistry and qualitative analysis. This is the second semester of a one-year course in chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine), mathematics, and engineering. The two-semester sequence of CHEM 1 and CHEM 2 provides the basic chemical background needed for further investigations into our physical environment. (C-ID CHEM 120S) (C-ID CHEM 120S = CHEM 1 and CHEM 2). Graded Only.

CHEM 21 - Organic Chemistry I **5 Unit(s)**
Prerequisite(s): CHEM 2
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This is the first course in a year-long study of organic chemistry designed for students majoring in chemistry and related science disciplines. It covers fundamental principles of organic chemistry including structure, nomenclature, conformational analysis and stereochemistry. The physical properties, reactions and reaction mechanisms of alkanes, alkyl halides, alcohols, ethers, alkenes, alkynes, and allylic systems are studied. Infrared spectroscopy and Nuclear Magnetic Resonance (NMR) spectroscopy are discussed in detail. (C-ID CHEM 150 & 160S). Graded Only.

CHEM 22 - Organic Chemistry II **5 Unit(s)**
Prerequisite(s): CHEM 21
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This is the second course in a year-long study of organic chemistry designed for students majoring in chemistry and related science disciplines. The physical properties, reactions and reaction mechanisms of conjugated systems, aromatic compounds, carbonyl compounds (aldehydes, ketones, carboxylic acids and their derivatives), amines and biomolecules are studied. Laboratory work includes advanced techniques in reaction conditions, product separation, purification and spectroscopy. (C-ID CHEM 160S) (C-ID CHEM 160S = CHEM 21 and CHEM 22). Graded Only.

CHEM 51 - Elementary Inorganic Chemistry **5 Unit(s)**
Prerequisite(s): MATH 108 or MATH 116 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture / 102 hours Lab
This is a survey course in the principles of inorganic chemistry, including atomic theory and periodic properties, nuclear chemistry, electronic structure, chemical bonding, stoichiometry, gas behavior, solution chemistry, kinetics and equilibrium, acids and bases, oxidation and reduction, and elementary thermodynamics. It is recommended for allied health or applied science majors. (C-ID CHEM 101). Graded Only.

CHEM 52 - Elementary Organic and Biochemistry **4 Unit(s)**
Prerequisite(s): CHEM 51
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course provides an introduction to the chemistry of organic compounds and biochemical compounds and processes. Topics comprise a survey of common organic functional groups and their associated properties including nomenclature, isomerism, reactivity, spectroscopy, and chirality. Biochemistry topics include proteins and amino acids, carbohydrates, lipids, nucleic acids, and metabolism. Recommended for allied health and applied science majors. (C-ID CHEM 102). Graded Only.

CHEM 95 - Special Studies-CHEM **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

CHEM 110 - Introductory Chemistry **4 Unit(s)**
Transfer Status: NT 51 hours Lecture / 51 hours Lab
This course is for the student who lacks the necessary background to enroll directly in CHEM 51 or CHEM 1. The assumption is made that this is the student's first exposure to chemistry. With that in mind, both the philosophy and practice of laboratory chemistry are pursued. The approach to many topics is quantitative and the topics chosen are those that are bothersome to students in more advanced courses. The goal is to prepare students for CHEM 51 or CHEM 1 and further study in chemistry.

Chinese (CHIN)

CHIN 1 - First Semester Chinese **4 Unit(s)**
Transfer Status: CSU/UC 68 hours Lecture
This course is a study of beginning Mandarin Chinese emphasizing grammar, reading, writing, listening and speaking. It also introduces the student to various aspects of the Chinese culture. Chinese history, traditions and culture will be woven throughout the content of the course. Students who have completed at least one, but fewer than two years of high school Chinese (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should register for Second Semester Chinese.

CHIN 2 - Second Semester Chinese **4 Unit(s)**
Prerequisite(s): CHIN 1
Transfer Status: CSU/UC 68 hours Lecture
This course is the second half of beginning Chinese, which further develops the skills of understanding, speaking, reading, and writing Chinese. It continues to introduce students to various aspects of Chinese culture. Students who have completed at least two, but fewer than three years of high school Chinese (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should consult the appropriate language instructor before enrolling.

Career Life Planning (CLP)

CLP 30 - Career Life Planning **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is a comprehensive career life planning course with a focus on self-exploration, career exploration, decision making and goal setting, job search strategies, and understanding the world of work in our global economy. Through self assessment students will learn about their interests, personality styles, values, transferrable skills, natural talents and strengths, lifestyle, learning styles, communication styles, and career fitness.

CLP 101 - Career, Education and Life Choices **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This is an introductory personal development course where students learn the skills for goal setting, budget projection, career and educational research, decision-making, and personal management. The course culminates in a 10-year action plan to fulfill educational and career goals.

CLP 300 - Career Development **0 Unit(s)**
Transfer Status: NT 30 hours Lecture
This course facilitates individual career growth. Topics include career planning theories, work motivation, self-assessment, career-success skills, career research, workforce preparation and readiness, and employment opportunities. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times. Ungraded. Open Entry/Open Exit.

CLP 334 - Workforce Readiness Strategies **0 Unit(s)**
Transfer Status: NT 48 hours Lecture
This course will help students develop attitudes, behaviors, and professional skills that contribute to personal success in work and life. Topics may include strategies that positively impact self-management and self-motivation, including self-assessments, workforce readiness skills, analyzing workplace skills, and personal wellness. Topics may include analyzing workplace skills and skill sets; identifying and seeking job opportunities that match current skills sets; writing an introductory cover letter; constructing a resume and master application; interviewing and keeping a job. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times. Ungraded.

Communication Studies (CMST)

CMST 2 - Public Speaking **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is the study of the fundamentals of public speaking with an emphasis on extemporaneous style delivery. Focus is placed on critical thinking including: the organization of ideas, the use of research, the development of critical analysis in the construction and consumption of messages and the practice of ethical and mindful communication. (C-ID COMM 110).

CMST 2H - Honors Public Speaking **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This is an Honors level introductory Public Speaking course. Through a process of thorough analysis, critical thinking, extended discussions, and original oral and written responses, students will study the fundamentals of extemporaneous public speaking. Emphasis is placed on the organization of ideas, the use of research techniques, and the development of critical analysis for problem solving. (C-ID COMM 110). Graded Only.

CMST 4 - Small Group Communication **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is the study of theory and research findings and their application to communication in small group contexts. It emphasizes group discussion for problem solving, leadership, listening, information gathering, analysis and public speaking. This class is designed to be experiential and exposes students to small group communication theory and public speaking fundamentals within the context of their own small group interactions, activities and presentations in classroom settings and real-world environments. (C-ID COMM 140).

CMST 6 - Oral Interpretation **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course covers the study and practice of oral skills essential for effective communication of the intellectual and emotional meaning of a literary selection or manuscript to an audience. (C-ID COMM 170).

CMST 9 - Intercultural Communication **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course provides an understanding of the dynamics of intercultural communication. Students will develop knowledge, attitudes, and skills to become more effective intercultural communicators. (C-ID COMM 150).

CMST 10 - Interpersonal Communication **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is the study of theory and research findings and their application to communication in interpersonal relationships in personal and professional contexts. It examines effective and appropriate uses of verbal and non-verbal messages in the initiation, development, maintenance, and termination of interpersonal relationships. Emphasis is placed on the psychological, social, cultural and linguistic factors that affect person-to-person communication. (C-ID COMM 130).

CMST 12 - Forensics (Speech and Debate) **3 Unit(s)**
Transfer Status: CSU 25.5 hours Lecture / 76.5 hours Lab
This course prepares students for intercollegiate speech and debate tournaments and/or community events. Preparation includes practice, research, writing and participation in a variety of public presentations. Community events, as well as forensics events, such as debate, platform, limited preparation, oral interpretation, and readers' theatre are emphasized. (C-ID COMM 160B). Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

CMST 13 - Gender and Communication **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course introduces students to gender-related communication, integrating theory and practice in order to heighten awareness of the importance of gender as a communication variable. Emphasis on perception, verbal, nonverbal similarities and differences are examined in interpersonal, small group, and public settings.

CMST 14 - Argumentation and Debate **3 Unit(s)**
Prerequisite(s): ENGL 2 or ENGL 3
Transfer Status: CSU/UC 51 hours Lecture
This course presents basic argumentation theory including research, methods of analysis, use and tests of evidence, refutation, and the logical and ethical responsibilities of advocacy. Emphasis is placed on the preparation and presentation of cases for and against propositions or points of view through debate and public address. (C-ID COMM 120).

CMST 95 - Special Studies-CMST **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Construction (CNST)

CNST 1 - Introduction to Construction **2 Unit(s)**
Prerequisite(s): ITEC 55
Co-requisite(s): CNST 5, CNST 10, CNST 15, CNST 20
Transfer Status: CSU 34 hours Lecture
This course is designed to teach students a broad overview of the construction industry and the opportunities available in this field. Emphasis will be on developing an understanding of the trades, processes, terminology, practices, and documents in the construction field. The student will be introduced to time, equipment, and materials and their relationship to estimating, cost, and performance.

CNST 5 - Plans, Specifications, & Surveying **3 Unit(s)**
Prerequisite(s): ITEC 55
Co-requisite(s): CNST 1, CNST 10, CNST 15, CNST 20
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course will introduce students to reading construction documents and specifications used in civil, residential, commercial, industrial, and specialty construction. The correlation of plans and specifications to the contract documents will be introduced, as well as the use of the plans for material takeoff. The introduction to surveying will cover fundamental surveying methods, field practices in measuring, note taking/mapping, and staking.

CNST 10 - Properties and Applications of Concrete **4 Unit(s)**
Prerequisite(s): ITEC 55
Co-requisite(s): CNST 1, CNST 5, CNST 15, CNST 20
Transfer Status: CSU 51 hours Lecture / 51 hours Lab
This course is a study of various types of concrete materials and applications. The students will learn about concrete production, transportation, forming, reinforcing, placing, consolidating, jointing, finishing, and curing. The students will be introduced to foundations, pavements, slabs on grade, structural concrete, and tilt-up/pre-cast concrete. Quality control, quantity take-off, and estimating will be included throughout as they relate to each topic.

CNST 15 - Materials and Methods of Construction **3 Unit(s)**
Prerequisite(s): ITEC 55
Co-requisite(s): CNST 1, CNST 5, CNST 10, CNST 20
Transfer Status: CSU 51 hours Lecture
A comprehensive study of the principle building materials and systems that are found in the construction industry. An in-depth review of how these materials and systems interact together to produce a complete design and project. The class highlights upon materials testing, quality control, green building products, and various project delivery methods.

CNST 20 - Foundations and Concrete Structures **3 Unit(s)**
Prerequisite(s): ITEC 55
Co-requisite(s): CNST 1, CNST 5, CNST 10, CNST 15
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is a comprehensive study of foundations and structures. Students will learn to analyze the practical applications of foundations/structures and the corresponding layout, excavation, form system, and material placement. Modern methods of material delivery and placement for foundations/structures and their forming system are studied and practiced.

CNST 21 - Analysis of Construction Drawings and Specifications **3 Unit(s)**
Prerequisite(s): CNST 1, CNST 5, CNST 15
Co-requisite(s): CNST 35, CNST 45
Transfer Status: CSU 51 hours Lecture
This course is an advanced study of reading construction documents and specifications used in civil, residential, commercial, industrial, and specialty construction. The correlation of plans and specifications to the contract documents will be reinforced, as well as the use of the plans for material takeoff. The student will be introduced to the use of plans and specifications for materials quantity takeoff and the correlation to the project estimate.

CNST 25 - Construction Framing **4 Unit(s)**
Prerequisite(s): CNST 1, CNST 5, CNST 10, CNST 15, CNST 20
Co-requisite(s): CNST 30, CNST 35, CNST 40
Transfer Status: CSU 51 hours Lecture / 51 hours Lab
This course is a study of the theory and practical applications of framing in modern construction of residential and commercial buildings. The students will learn safety as it relates to framing construction and the tools and processes used. The sequence and technique of layout, material selection, and construction will be studied and applied.

CNST 30 - Interior and Exterior Finishes **4 Unit(s)**
Prerequisite(s): CNST 1, CNST 5, CNST 10, CNST 15, CNST 20
Co-requisite(s): CNST 25, CNST 35, CNST 40
Transfer Status: CSU 51 hours Lecture / 51 hours Lab
This course is a study of the application of interior and exterior finishes common to residential, commercial, and industrial construction. Finish materials will be analyzed for purpose, cost, and ease of installation technique.

CNST 35 - Electrical and Mechanical Systems **3 Unit(s)**
Prerequisite(s): CNST 1, CNST 5, CNST 10, CNST 15, CNST 20
Co-requisite(s): CNST 25, CNST 30, CNST 40
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to Mechanical, Electrical, and Plumbing Systems and the integration of these systems into the building design and construction process.

CNST 40 - Construction Cost Estimating I **3 Unit(s)**
Prerequisite(s): CNST 1, CNST 5, CNST 10, CNST 15, CNST 20
Co-requisite(s): CNST 25, CNST 30, CNST 35
Transfer Status: CSU 51 hours Lecture
This course is an introduction to cost estimation in construction. The techniques, organization, and forms utilized in the various construction trades will be analyzed and practiced. The student will learn the procedures for quantity take-off, productivity calculation, bid tabulation, and the formulation of basic overhead and profit calculations through practical applications.

CNST 45 - Construction Graphics **3 Unit(s)**
Prerequisite(s): CNST 5
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
The ability to communicate 3 dimensional (3D) forms and ideas with 2 dimensional (2D) representations is a central skill in the construction industry. This course will train students to create and interpret the representation of our built environment through the practice of construction graphics. Students will establishing a working vocabulary of symbols, details, and views used in construction drawing through both lecture and practical application. Specific techniques will include basic sketching and visualization and an introduction to computer-aided drafting and modeling using Sketch-up, Revit, and Navisworks (3D modeling and viewing tools).

CNST 50 - Construction Cost Estimating II **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is a study of the details of construction cost estimating as they effect profit, practicality, contract law, and contractor moral obligations. The students will be introduced to the nuances that will make an estimate viable for project success and profitability using industry standard procedures and software.

CNST 97 - Special Problems-CNST **1 - 3 Unit(s)**
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

CNST 99 - Work Experience-CNST **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Cosmetology (COS)

COS 100 - Introduction to Cosmetology **5 Unit(s)**
Prerequisite(s): High School Diploma or G.E.D.
Transfer Status: NT 30 hours Lecture / 210 hours Lab
This course is the first in a seven-course sequence. It introduces students to the history of Cosmetology, career opportunities in Cosmetology, and the skills required to have a successful career in the beauty industry. Students will learn the basic skills and techniques required for all aspects of hair care, hair cutting, hair treatments, makeup application, skin care and nail care and the safe, hygienic practice of Cosmetology procedures. Additionally, students will learn and develop basic skills in human relations, customer satisfaction and the professional attitudes that are vital to success in the beauty industry.

COS 101 - Cosmetology I **5 Unit(s)**
Prerequisite(s): COS 100 or Permission of Instructor
Transfer Status: NT 30 hours Lecture / 210 hours Lab
This course is the second in a seven-course sequence. Students are introduced to the principles and practices of infection control, anatomy and physiology, and chemistry. Emphasis will be placed upon skin, nail, and hair structure and growth and disorders of hair, scalp, and nails. Students will continue developing the skills and techniques required for all aspects of hair care, hair cutting, hair treatments, makeup application, skin care and nail care and the safe, hygienic practice of Cosmetology procedures. Additionally, students will continue developing skills in human relations, customer satisfaction and the professional attitudes that are vital to success in the beauty industry.

COS 102 - Cosmetology II **5 Unit(s)**
Prerequisite(s): COS 101 or Permission of Instructor
Transfer Status: NT 30 hours Lecture / 210 hours Lab
This course is the third in a seven-course sequence. Students are introduced to the basics of electricity, electrical equipment, principles of hair design, haircutting and hair styling. Emphasis will be placed on electrotherapy, light therapy, hair types, facial structure, hair treatments, hair cutting and wet and thermal styling basics. Students will continue developing the skills and techniques for all aspects of hair care, hair cutting, hair treatments, makeup, skin and nail are and the safe, hygienic practice of Cosmetology procedures. Additionally, students will continue developing skills in human relations, customer satisfaction and the professional attitudes that are vital to success in the beauty industry.

COS 103 - Cosmetology III **5 Unit(s)**
Prerequisite(s): COS 102 or Permission of Instructor
Transfer Status: NT 30 hours Lecture / 210 hours Lab
This course is the fourth in a seven-course sequence. Students are introduced to hair braiding, wigs, hair enhancements, chemical services, hair chemistry and structure, principles of hair coloring, and skin diseases and disorders. Emphasis will be placed on chemical hair services including coloring, relaxing and perming, proper application and care of wigs, hair extensions and braids, color theory and skin disorders. Students will continue developing the required skills and techniques for all aspects of hair care, hair cutting, hair treatments, makeup application, skin care and nail care and the safe, hygienic practice of Cosmetology procedures. Additionally, students will continue developing skills in human relations, customer satisfaction and the professional attitudes that are vital to success in the beauty industry.

COS 104 - Cosmetology IV **5 Unit(s)**
Prerequisite(s): COS 103 or Permission of Instructor
Transfer Status: NT 30 hours Lecture / 210 hours Lab
This course is the fifth in a seven-course sequence. Students are introduced to hair removal, skin analysis and care, facial massage and makeup application. Emphasis will be placed on temporary and permanent hair removal, skin typing and treatments, facial massage, proper use of electrotherapy and light therapy, color theory and principles of makeup application. Students will continue developing the required skills and techniques for all aspects of hair care, hair cutting, hair treatments, makeup application, skin care and nail care and the safe, hygienic practice of Cosmetology procedures. Additionally, students will continue developing skills in human relations, customer satisfaction and the professional attitudes that are vital to success in the beauty industry.

COS 105 - Cosmetology V **5 Unit(s)**
Prerequisite(s): COS 104 or Permission of Instructor
Transfer Status: NT 30 hours Lecture / 210 hours Lab
This course is the sixth in a seven-course sequence. Students are introduced to nail diseases and disorders, manicuring and pedicuring basics and nail tips, wraps and enhancements. Emphasis will be placed on proper use and disinfection of manicuring tools, manicuring and pedicuring techniques, foot massage, cleaning and disinfection of foot baths and spas and application, maintenance and removal of nail tips, wraps and enhancements. Students will continue developing the required skills and techniques for all aspects of hair care, hair cutting, hair treatments, makeup application, skin care and nail care and the safe, hygienic practice of Cosmetology procedures. Additionally, students will continue developing skills in human relations, customer satisfaction and the professional attitudes that are vital to success in the beauty industry.

COS 106 - Cosmetology VI **5 Unit(s)**
Prerequisite(s): COS 105 or Permission of Instructor
Transfer Status: NT 30 hours Lecture / 210 hours Lab
This course is a capstone course for the cosmetology sequence. Students are introduced to the principles of successful salon business management, and demonstration of proper technique and practice in all aspects of hair, skin and nail care, treatments and procedures. Emphasis will be placed on mastery of the necessary Cosmetology concepts, principles and skills required to pass the California State Licensing exam for Cosmetology. Students will be required to demonstrate mastery of the required skills and techniques for all aspects of hair care, hair cutting, hair treatments, makeup application, skin care and nail care and the safe, hygienic practice of Cosmetology procedures. Additionally, students will continue developing skills in human relations, customer satisfaction and the professional attitudes that are vital to success in the beauty industry. Students will spend 30 hours in a classroom setting and 210 hours in laboratory activities. Upon completing this course, students are expected to have a minimum of 1,600 hours of applied skill practice required by the State of California Board of Barbering and Cosmetology.

COS 107 - Cosmetology to Barbering Crossover **5 Unit(s)**
Prerequisite(s): Students must supply a 1,600 hour completion of Cosmetology Proof of Training Certificate or have a current valid Cosmetology License
Transfer Status: NT 30 hours Lecture / 210 hours Lab
This course provides training in barbering for students proficient in cosmetology training and prepares the student for the California State Board Barber examination. Students are introduced to the theory and advanced techniques of preparing the client's hair for shaving, assessing the condition of the client's skin, performing shaving techniques, applying after-shave antiseptic following facial services, massaging the client's face and rolling cream massages. Upon completing this course, students are required to have a minimum of 1,800 hours of applied skill practice required by the State of California Board of Barbering and Cosmetology.

COS 108 - Manicuring **10 Unit(s)**
Prerequisite(s): High School Diploma or G.E.D.
Transfer Status: NT 55 hours Lecture / 345 hours Lab
The manicure course is an intensive course for the student seeking an entry level position in the industry, or for an individual re-entering the job market to develop new skills. Upon successful completion of this course, the student will be eligible to take the state board exam and become a California state licensed Manicurist.

COS 109 - Esthetician (Skin Care) **16 Unit(s)**
Prerequisite(s): High School Diploma or G.E.D.
Transfer Status: NT 110 hours Lecture / 490 hours Lab
Upon successful completion of this course, the student will be eligible to take the state board exam and become a California state licensed Esthetician. The skin care course is an intensive course for the student seeking an entry level position in the industry, or for a person reentering the job market with new skills.

COS 110 - Instructor Training **15 Unit(s)**
Prerequisite(s): High School Diploma or G.E.D.; Must hold a valid Cosmetology License
Transfer Status: NT 90 hours Lecture / 630 hours Lab
This course shall consist of technical instruction and practical operations in teaching the art and science of Cosmetology. Technical instruction shall mean instruction by demonstration, lecture, classroom participation, or examination; practical operation shall mean the actual performance by the instructor trainee of teaching techniques and principles. Hours and required technical skills/proficiencies are mandated by the California State Board of Barbering and Cosmetology.

COS 111 - Cosmetology Refresher **5 Unit(s)**
Prerequisite(s): COS 106 and expired state license or failure to pass state exam
Transfer Status: NT 30 hours Lecture / 210 hours Lab
This refresher course is designed for students who have completed COS 100-106 or the equivalent, and have an expired cosmetology license or failed to pass the state licensing examination. Students will brush up on skills and techniques in all phases of hair, makeup, skin and nail care, customer service and professionalism. In addition, students will refresh their skills in human relations, customer satisfaction and professional attitudes that are vital to success in the beauty industry. Upon successful completion of this course and verification of completion of Cosmetology 100-106 or the equivalent, the student will be eligible to take the state board examination and become a California state licensed Cosmetologist.

COS 300 - Cosmetology Practicum **0 Unit(s)**
Prerequisite(s): Current Enrollment in a Cosmetology Program or Permission of Instructor
Transfer Status: NT 102 hours Lab
This course is designed to meet the needs of students preparing to take the state examination for cosmetology licensure, or for those needing to complete additional hours of training required to qualify for the cosmetology state examination. This course reviews skills and protocols required by the State Board of Barbering and Cosmetology. The reinforcement of entry level industry skills are emphasized. Unlimited repeats. Pass/No Pass Only. Open Entry/Open Exit.

Community Partners in Education (CPE)

CPE 308 - Functional Academics for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course provides instruction and support for persons with substantial disabilities attending a facility in the community generally known as a day activity center. Functional Academics focuses on learning basic academic skills such as reading comprehension, writing and mathematical skills as well as basic money handling skills and increased awareness and independence in independent living skills. Topics include reading comprehension, writing skills, mathematical skills, money management, daily living skills and self-advocacy. An individual assessment of needs as well as an ongoing Individual Service Plan (ISP) is a component of this course. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

CPE 310 - Integration into the Community for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course is designed for persons with substantial disabilities attending a facility in the community generally known as a day activity center. Integration into the Community will focus on learning how to become a part of the community and will include social skills, communication skills, problem solving skills, personal safety skills and increasing stamina and endurance for walking or wheeling self safely while navigating uneven terrain in the community. An individual assessment of needs as well as an ongoing Individual Service Plan (ISP) is a component of this program. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

CPE 311 - Horticultural Arts for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course is designed for persons with substantial disabilities attending a facility in the community generally known as a day activity center. Horticultural Arts will focus on learning how esthetics can enhance the creative experience of growing and tending a garden. Topics will include planning a garden, how fine and gross motor skills can be enhanced by tending a garden, identifying the components of the garden, and how to utilize the vegetables and flowers to enhance daily living activities. An individual assessment of needs as well as an ongoing Individual Service Plan (ISP) is a component of this course. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

CPE 312 - Applied Arts for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course is designed for persons with substantial disabilities attending a facility in the community generally known as a day activity center. Applied Arts focuses on learning to utilize a variety of art and craft media to enhance the creative expression of adults with limited ability to communicate in traditional ways. Topics will include stained glass, ceramics, beading and jewelry making, woodworking, and fabric art. An individual assessment of needs as well as an ongoing Individual Service Plan (ISP) is a component of this course. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

CPE 313 - Fine Arts for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course is designed for persons with substantial disabilities attending a facility in the community generally known as a day activity center. Fine Arts focuses on learning to utilize a variety of art media to enhance the creative expression of adults with limited ability to communicate in traditional ways. Topics will include drawing (pencil, charcoal, pastels, pen and ink, etc.), painting (watercolor, acrylic, oil, etc.) and creating individual works of art which can be shown in local venues. An individual assessment of needs as well as an ongoing Individual Service Plan (ISP) is a component of this course. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

CPE 314 - Performing Arts for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course is designed for persons with substantial disabilities attending a facility in the community generally known as a day activity center. Performing Arts will focus on developing creative expression and improving communication skills and social interaction through a wide range of performance arts. Topics will include performing skits, plays, stand up comedy, poetry slams, dance and movement, musical instruments and singing. An individual assessment of needs as well as an ongoing individual service plan (ISP) is a component of this course. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

CPE 315 - Culinary Arts and Nutrition Skills for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course provides instructional support for persons with substantial disabilities attending a facility in the community generally known as a day activity center. Culinary Arts and Nutrition Skills will focus on improving independent living skills. Topics include health and wellness, healthy food choices and the use of gross motor skills for safe cooking. An individual assessment of needs as well as an ongoing Individual Service Plan (ISP) is a component of this program. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

CPE 316 - Health and Wellness for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course is designed for persons with substantial disabilities attending a facility in the community generally known as a day activity center. Health and Wellness focuses on interpersonal skills development through physical and behavioral techniques. Topics include problem solving, breathing and relaxation techniques, attention and focus, sensory awareness, utilization of all five senses, social and personal adjustment, self-advocacy for fostering independence, fine and gross motor skills, and personal care and hygiene. An individual assessment of motor communication and self-help learning needs as well as an ongoing Individual Service Plan (ISP) is a component of this course. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

CPE 318 - Communication Skills for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course is designed for persons with substantial disabilities attending a facility in the community generally known as a day activity center. Communication Skills focuses on learning basic techniques for communicating. Topics include ASL, functional gesture practice, articulation practice, making choices, problem solving and social communication skills. An individual assessment of needs as well as an ongoing individual service plan (ISP) is a component of this course. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

CPE 320 - Independent Living Skills for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course provides independent living training for persons with substantial disabilities. Independent Living Skills focuses on establishing and maintaining a positive lifestyle, progressing to the highest level of independent functioning, and training in each student's living environment. Topics include health and safety, personal hygiene, cooking/nutrition, exercise, money and time management, medical awareness, problem solving, communication skills, and emergency preparedness. An individual assessment of needs as well as an ongoing Individual Service Plan (ISP) is a component of this course. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

CPE 322 - Group Social Growth for Persons with Substantial Disabilities **0 Unit(s)**
Transfer Status: NT 200 hours Lab
This course provides group socialization training for persons with substantial disabilities through group interaction and activities. Group Social Growth focuses on team building skills, interacting in group settings, and promoting companionship. Topics include group socialization, group timelines, financial obligations, self-advocacy in groups, safety, and community resource assistance. An individual assessment of needs as well as an ongoing Individual Service Plan (ISP) is a component of this course. The ISP will dictate the number of hours each student will spend in this course. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

Computer Science (CSCI)

CSCI 2 - Business and Computer Information Systems **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an examination of information systems and their role in business. Focus on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. Application of these concepts and methods through hands-on projects developing computer-based solutions to business problems. (C-ID ITIS 120).

CSCI 4 - Introduction to Programming Concepts and Methodologies **3 Unit(s)**
Transfer Status: CSU/UC 42.5 hours Lecture / 25.5 hours Lab
This course introduces students to the fundamental concepts of programming. Students will learn about the software development lifecycle, algorithms, and the design, implementation, and testing of programs using an object-oriented programming language. (C-ID COMP 112).

CSCI 10 - Computer Architecture and Organization **3 Unit(s)**
Prerequisite(s): CSCI 20
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an introduction to the organization and behavior of modern computer systems at the assembly language level. Topics include numerical computation, the internal representation of simple data types and structures, data representation errors, and procedural errors. Students will learn how to map statements and constructs of high-level languages onto sequences of machine instructions. (C-ID COMP 142).

CSCI 11 - Introduction to Game Design and Development **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an introduction to the concepts, technologies, and techniques of game design and development. The course covers the history of games, basic game theory, the phases of game development, the use of computers and other media in the development of games, and game testing and analysis. Students will explore the ethical and social issues associated with the design, production, and marketing of games. The course emphasizes the importance of teamwork in, and the interdisciplinary nature of, the games industry.

CSCI 17 - Computer and Network Security/Security+ **3 Unit(s)**
Prerequisite(s): CSCI 49
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This is an advanced course in computer and network security. This course will prepare students to evaluate, secure and manage network information assurance, and take the CompTIA Security+ certification exam. Course topics include threat management, security standards and protocols (including public key infrastructure and cryptography), intrusion detection and prevention, forensics, system recovery, and disaster planning. The principles of data integrity, user accountability, and policy management will be explored in detail. Students will develop and demonstrate intrusion detection skills utilizing a virtual network to configure and test security procedures.

CSCI 19 - Computer Networking Fundamentals **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces the structure, architecture, functions, components and models of the Internet and other computer networks. The course will prepare students to create and maintain data communications networks, and prepare to take the CompTIA's Network+ certification exam. Course topics include: designing, implementing, and maintaining functional communication systems using the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the roles of protocols and services at the application, network, data link and physical layers. A virtualized lab component using NDG NETLabs+ will be included.

CSCI 20 - Programming and Algorithms I **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an introduction to the discipline of computer science, with a focus on the design and implementation of algorithms to solve simple problems using a high-level programming language. Topics include fundamental programming constructs, problem-solving strategies, debugging techniques, declaration models, and an overview of procedural and object-oriented programming languages. Students will learn to design, implement, test, and debug algorithms using pseudocode and a high-level programming language. (C-ID COMP 122).

CSCI 21 - Programming and Algorithms II **3 Unit(s)**
Prerequisite(s): CSCI 20
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This is a software engineering course, focused on the application of software engineering techniques for the design and development of large programs. Topics include data abstraction, data structures and associated algorithms, recursion, declaration models, and garbage collection. Students will learn to design, implement, test, and debug programs using an object-oriented language. (C-ID COMP 132).

CSCI 22 - Discrete Structures **3 Unit(s)**
Prerequisite(s): CSCI 20
Transfer Status: CSU 42.5 hours Lecture / 25.5 hours Lab
This course is an introduction to the discrete structures used in Computer Science, with an emphasis on their applications. Topics covered include functions, relations and sets, basic logic, proof techniques, basics of counting, graphs and trees, and discrete probability. (C-ID COMP 152).

CSCI 23 - Systems Analysis and Design **3 Unit(s)**
Prerequisite(s): CSCI 2
Transfer Status: CSU 51 hours Lecture
The course presents a systematic methodology for analyzing a business problem or opportunity, determining what role, if any, computer-based technologies can play in addressing the business need, articulating business requirements for the technology solution, specifying alternative approaches to acquiring the technology capabilities needed to address the business requirements, and specifying the requirements for the information systems solution in particular, in-house development, development from third-party providers, or purchased commercial-off-the-shelf packages.

CSCI 25 - Linux 1, Essentials **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
In this course students learn the fundamental concepts of the Linux operating system and the basic skills needed to work productively on a Linux system. Topics covered include installation and basic configuration, fundamental command-line tools, text editing with the vi (visual editor), the File Hierarchy Standard (FHS), processes, and permissions. Students will configure, script, and work exclusively in a shell (text-based, command-line) environment.

CSCI 31 - Web Development I **3 Unit(s)**
Prerequisite(s): CSCI 4 (or concurrent enrollment) or CSCI 20 (or concurrent enrollment)
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to web development using HyperText Markup Language Version 5 (HTML5), Cascading Style Sheets Level 3 (CSS3), JavaScript, and jQuery. Students will learn to design and build standards-compliant front-end/client-side web applications using HTML5, CSS3, JavaScript, and jQuery.

CSCI 32 - Web Development II **3 Unit(s)**
Prerequisite(s): CSCI 31
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
In this course students learn to develop applications for the World Wide Web. Topics include the fundamentals of web server platforms, programming languages for web development, using databases to persist information for a web application, and web application frameworks. Students will design, implement, and deploy a complete web application using a current programming language, database technology, and web server.

CSCI 36 - Programming Project **2 Unit(s)**
Prerequisite(s): CSCI 21
Transfer Status: CSU 17 hours Lecture / 51 hours Lab
This is a capstone programming project course integrating software engineering processes, project management, and computer programming skills. Topics include problem formulation, requirements elicitation, design, tools and frameworks, implementation and testing, version control, integration, and documentation. Emphasis will be placed on teamwork to design, develop, and deliver software projects that solve specific problems.

CSCI 48 - Cisco Networks Level 1 and 2 **4 Unit(s)**
Transfer Status: CSU 42.5 hours Lecture / 76.5 hours Lab
This is an introductory course in computer networking and data communication infrastructure. The focus of this course is to develop the skills required to manage and maintain a Cisco routing and switching infrastructure. It is designed to prepare students to take the Cisco Certified Entry-level Network Technician (CCENT) exam. It is the first of two courses designed to prepare students to take the Composite Cisco Certified Network Associate (CCNA) Routing and Switching certification exam. This course introduces physical and logical network topologies, routing and switching implementation using Cisco networking components. Course topics will include: Local Area Networks (LANs), Virtual Local Area Networks (VLANs), Wide Area Networks (WANs), converged and packet switched networks and protocols, routing and switching components and configurations, network design, installation, management, addressing and security.

CSCI 49 - PCs and Peripherals/A+ **4 Unit(s)**
Transfer Status: CSU 42.5 hours Lecture / 76.5 hours Lab
This is an introductory course in computer hardware, operating systems and connectivity. The course prepares students to take the CompTIA A+ exams. The focus of this course is to develop an understanding of personal computing devices, including terminology, safety, assembly, operating system installation, configuration, optimization, security, and industry best practices.

CSCI 53 - Cisco Networks Level 2, Routing & Switching **3 Unit(s)**
Prerequisite(s): CSCI 48
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This is an intermediate level computer networks course covering fundamental elements, terminology and software. It is the second of three courses (CSCI 48, 53, and 56) designed to prepare students to take the Cisco Certified Network Associate (CCNA) exam. Course topics include; router elements, binary math, TCP/IP (Transmission Control Protocol/Internet Protocol), addressing, subnetting, address protocols, media standards, and the design of a Local Area Network (LAN).

CSCI 56 - Cisco Networks Level 3 & 4, Scaling and Connecting **3 Unit(s)**
Prerequisite(s): CSCI 48 or CCENT Certification
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This is an intermediate level course in computer networks that enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. The focus of this course is scaling and connecting networks through WAN technologies. It describes the architecture, components and advanced operations of routers and switches, and the network services required by converged applications in a large and complex network. It is the second of two courses designed to prepare students to take the Cisco Certified Network Associate (CCNA) exam. This course will provide students with the skills and knowledge required to analyze, design, build, and maintain small to medium-sized networks; troubleshoot data link and routing protocols and network services. Topics include: Local Area Network (LAN) switching and design, Virtual Local Area Networks (VLANs), trunking protocols, WAN fundamentals and routing protocols, network security, Access Control Lists (ACLs), and network monitoring and troubleshooting.

CSCI 65 - Microsoft SQL Database Administration **3 Unit(s)**
Prerequisite(s): CSCI 49
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course prepares students to take the Microsoft Technology Associate (MTA) certification exam for Microsoft Structured Query Language (SQL) Server. Students learn to install and configure a database, create fields, tables, and objects, manipulate data, and administer and troubleshoot a Microsoft SQL Server database. Topics include server instances, server components, security, backup and recovery, performance and availability.

CSCI 70 - Installing and Configuring Windows Server 2012 **3 Unit(s)**
Prerequisite(s): CSCI 49 or CompTIA A+ certification
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is the first in a three course series in which students learn the skills and knowledge necessary to implement a Windows Server 2012R2 infrastructure. The focus of the course is on the initial implementation and configuration of core services including Active Directory Domain Services (AD DS), networking services, and Microsoft Hyper-V Server 2012R2 configuration. The course prepares students for Microsoft certification exam 70-410, Installing and Configuring Windows Server 2012R2.

CSCI 71 - Administering Windows Server 2012 **3 Unit(s)**
Prerequisite(s): CSCI 70 or MCSA 70-410 Certification
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is the second in a three course series in which students learn the skills and knowledge necessary to implement a Windows Server 2012R2 infrastructure. The focus of the course is on the mastery and fine-tuning of core services such as user and group management, network access, and data security. Students will learn to implement, manage, maintain, and provision services and Active Directory infrastructure in a Windows Server 2012R2 enterprise environment. The course prepares students for Microsoft certification exam 70-411, Administering Windows Server 2012R2 exam.

CSCI 72 - Configuring Advanced Windows 2012 Server Services **3 Unit(s)**
Prerequisite(s): CSCI 71 or MCSA 70-411 certification
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is the third in a three course series in which students learn the skills and knowledge necessary to implement a Windows Server 2012 infrastructure. The focus of the course is on the mastery of Advanced Windows Server 2012 Services including advanced management and maintenance a Windows Server 2012 infrastructure. The course also covers fault tolerance, certificate services, and identity federation services. The course prepares students for Microsoft certification exam 70-412, Configuring Advanced Windows Server 2012 Services exam.

CSCI 73 - Server 2016 Installation, Storage, and Compute **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is the first in a three course series in which students learn the skills and knowledge necessary to implement a Windows Server 2016 infrastructure. The focus of the course is on the initial installation storage and compute functionalities and configuration of core services for all versions of Server 2016. It includes Hyper-V virtualization configuration and management, deploying Windows containers, clustering, and High Availability options. It is designed to prepare the student for the 70-740 Microsoft Certification Exam.

CSCI 74 - Networking with Windows Server 2016 **3 Unit(s)**
Prerequisite(s): CSCI 73 or MCSA 70-740 Certification
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is the second in a three course series in which students learn the skills and knowledge necessary to implement a Windows Server 2016 infrastructure. The focus of the course is on networking features and functionality available in Windows Server 2016. It covers Domain Names Services (DNS), Dynamic Host Configuration Protocol (DHCP), Internet Protocol Address Management (IPAM), file sharing with Distributed File Systems, remote access solutions and implementation of Software Defined Networking (SDN). Students will learn about new network technology changes and functionality in a Windows Server 2016 enterprise environment. The course prepares students for the Microsoft certification exam 70-741, Networking with Windows Server 2016 exam.

CSCI 75 - Identity with Windows Server 2016 **3 Unit(s)**
Prerequisite(s): CSCI 74 or MCSA 70-741 Certification
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is the third in a three course series in which students learn the skills and knowledge necessary to implement a Windows Server 2016 infrastructure. The focus of the course is on the mastery of advanced Windows Server 2016 services including Active Directory Domain Services, Group Policy, Certificate, Federation Identity and access Services, advanced management and maintenance of a Windows Server 2016 infrastructure. The course prepares students for Microsoft certification exam 70-742 Identity with Windows Server 2016.

CSCI 97 - Special Problems-CSCI **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

CSCI 99 - Work Experience-CSCI **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Counseling (CSL)

CSL 20 - College & Life Success **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course focuses on developing self-knowledge, resources, and skills that result in lifelong success: from college to the future. Students will address the challenges and transitions associated with life and the college years. Students will also explore issues related to diversity and gender and how each influences the individual and group physically, socially, personally and educationally. Students will be exposed to educational theories that affect first year college students. Community and campus resources will be utilized to support students in their learning and development as a whole person. Emphasis will be placed on the importance of understanding and balancing all aspects of self that lead to success in college and life.

CSL 34 - Group Experience - Strategies for Academic, Personal, Career Success **0.5 Unit(s)**
Transfer Status: CSU 8 hours Lecture
This course will provide students with information and activities that lead to academic, personal, and career success. A variety of topics will be covered including: educational planning, study skills and strategies, time management and organization, college policies and procedures, and accessing resources on and off campus.

CSL 70 - Healthy Transitions **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
This course is designed for students who have been placed in foster care. It is comprised of reflective and experiential activities designed to empower students in recognizing and utilizing their abilities and strengths throughout transitions in life. Overarching emphasis will be placed on the topics of wellness, self-care, and mental health. A variety of topics will be covered including: daily habits, stress management, self-care techniques, relationships, emotional health, self-monitoring, and empowering ourselves. Pass/No Pass Only.

CSL 95 - Special Studies-CSL **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Drafting (DFT)

DFT 2 - Engineering Graphics I **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This is a computer-based engineering graphics course that introduces students to graphical design and problem solving using freehand sketching and a solid modeling application. Topics include sketching and modeling using extrudes, sweeps, and lofts. Additional topics include assemblies development and detail drawing output. Graphics standards including American National Standards Institute (ANSI) Y14.5 and international standards application will be introduced and practiced.

DFT 4 - Print Reading for Construction and Architecture **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
In this course, students will learn to read and understand drawings and specifications used in construction and architectural applications. Topics include line types, views, dimensions, symbols, sketching, materials, specifications, and estimating. Construction prints, drawings and specifications including residential and non-residential applications are used by students in this course.

DFT 8 - Engineering Graphics II **3 Unit(s)**
Prerequisite(s): DFT 2
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
In this computer-based engineering graphics course students who have already completed the learning objectives of DFT-2: Engineering Graphics I will be introduced to the use of a solid modeling application for simulation of parts and assemblies using Finite Element Analysis (FEA) methodology. Students will model parts and assemblies and will test them using simulation and engineering analysis. Topics include static, frequency, thermal, vibration and drop test analysis methods. The use of simulation to generate engineering reports will be introduced and reports will be generated.

DFT 12 - Beginning AutoCAD Drafting **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course introduces students to basic drafting concepts using both freehand sketching and AutoCAD, an industry-standard computer-aided drafting (CAD) application. It is intended for drafting majors, engineering majors, interior design majors and pre-architectural students. Topics include line and geometric shape development, freehand sketching, basic AutoCAD commands, text commands, file management, orthographic and pictorial projection, dimensioning, sectioning, auxiliaries, and architectural drawings using sketching and a two-dimensional (2D) drafting application. Document reproduction, printing and plotting will be introduced and practiced.

DFT 16 - Print Reading For Industry and Manufacturing **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to drawings, symbols and standards used in manufacturing and industrial applications. Topics include line types, views, dimensions, symbols, sketching, geometric dimensioning and tolerancing, version and revision systems and specialty drawings by manufacturing process. Manufacturing prints, drawings and specifications from both manufacturing and industrial applications will be used in the course.

DFT 24 - Architectural Drafting Applications **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This is a computer-based drafting course that introduces the student to architectural drafting applications. Building on basic drafting concepts learned previously, this course will introduce residential design concepts including floor plans, foundation plans and details, elevations, framing and section plans, mechanical, electrical and plumbing plans and engineering site plans. Students will also be introduced to three-dimensional (3D) architectural modeling. Students will prepare a plan set including coversheet, site plan, floor plan, electrical plan, elevations, building section and construction details using AutoCAD.

DFT 45 - Building Information Modeling I **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
In this computer-based course students will be introduced to the latest in three-dimensional (3D) modeling for architecture and Building Information Modeling (BIM). Topics will cover architectural modeling and design with BIM tools for parametric design and documentation. The focus of the course is on residential architecture and covers the initiation of a design, the development of a design and production of a presentation and sheet set for a design.

DFT 46 - Building Information Modeling II - Advanced Applications **3 Unit(s)**
Prerequisite(s): DFT 45
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
In this computer-based Building Information Modeling (BIM) course, students who have already completed the learning objectives of DFT-45 Building Information Modeling I will be introduced to advanced techniques and concepts of BIM for architectural design applications. Topics will include design options, phasing of design, work sets, site, area analysis, creating in-place and advanced families, massing, and rendering. Students will complete a large scale project with activities spanning the entire course including project phases, project management, material costing and extensive modeling in 3D.

DFT 97 - Special Problems-DFT **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

DFT 99 - Work Experience-DFT **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Drama (DRAM)

Course Families
Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or 'W') within each family group.

Children's Theatre : DRAM 4
Musical Theatre : DRAM 10, 18, 19
Theatre Performance : DRAM 11, 12, 100

DRAM 2 - Theatre Arts Appreciation **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course focuses on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course discusses elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles and genres of theatre through play reading, discussion, films and viewing and critiquing live theatre, including required attendance of theatre productions. (Acting is not required). (C-ID THTR 111).

DRAM 4 - Creative Drama and Theatre for Children **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course will introduce students to the principles of play selection and/or creative drama as applied to the specialized area of child development majors, elementary, middle, and high school environments. Focus will be given to the practical use of drama as an artistic expression, as a statement of values, and as an instructional strategy. The creative dramatics aspect of the course covers methods of developing creativity and dramatic instincts in children. This course is recommended for future pre-k, elementary, middle, and high school teachers, and recreation specialists.

DRAM 8 - Principles of Acting I **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course prepares a student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. Special attention is paid to skills for performance: memorization, stage movement, vocal production, and interpretation of text. (C-ID THTR 151).

DRAM 9 - Principles of Acting II **3 Unit(s)**
Prerequisite(s): DRAM 8
Transfer Status: CSU/UC 51 hours Lecture
This course follows DRAM 8 and continues the exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through character analysis, monologues, and scenes. (C-ID THTR 152).

DRAM 10 - Rehearsal and Performance for Musical Theatre **3 Unit(s)**
Co-requisite(s): DRAM 19
Transfer Status: CSU 153 hours Lab
This course provides instruction and supervised participation in musical theatre rehearsal and performance. Students enrolled in this course will be formed into a company to present a musical production. Each student will participate in a theatrical production in the style of theatre generally termed American Musical Comedy.

DRAM 11 - Youth Outreach Theatre **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
This course provides instruction and supervised participation in theatre rehearsal and performance that will be performed to K-12 level students. (C-ID THTR 191).

DRAM 12 - Rehearsal & Performance **3 Unit(s)**
Co-requisite(s): Enrollment in one or more additional drama courses.
Transfer Status: CSU/UC 153 hours Lab
This course provides instruction and supervised participation in theatre rehearsal and performance. (C-ID THTR 191).

DRAM 14 - Theatre Production Workshop **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. (C-ID THTR 192).

DRAM 15 - Costume Construction I **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is a study of costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. (C-ID THTR 174).

DRAM 18 - Musical Comedy Workshop **3 Unit(s)**
Prerequisite(s): MUS 30
Transfer Status: CSU/UC 34 hours Lecture / 68 hours Lab
In this course students will apply their vocal and acting skills in a live performance. Students will also develop the ability to interrelate with other performers utilizing skills intrinsic to musical productions.

DRAM 19 - Choreography for Performance **2 Unit(s)**
Co-requisite(s): DRAM 10
Transfer Status: CSU/UC 17 hours Lecture / 51 hours Lab
This course introduces students to dance styles and choreography used in theatrical performance. Students will learn appropriate warm-up, technique for dance, and strengthening exercises. Topics will include the rules of etiquette and basic terminology used in theatre and dance production.

DRAM 21 - Introduction to Theatre Design **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is a survey of scenery, lighting, sound, costumes, makeup, properties, theatrical equipment, and construction techniques applicable to all formal theatrical applications. Information is applicable to all formal theatrical applications. Students will work on a series of projects which will culminate in participation as a member on one of the design teams, or as a crew member for a live theatre production. Crew relationships and job responsibilities will be learned and the working relationship between director, designers, artists, and crew members will be established and practiced. (C-ID THTR 172).

DRAM 22 - Introduction to Stage Lighting **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 - 153 hours Lab
This course involves the study and execution of stage lighting with emphasis on equipment, control, color and their relationship to design. Students will engage in theoretical discussions and review artistic pursuit in lighting design, as well as participate in "hands-on" activities in a practical setting. (C-ID THTR 173).

DRAM 95 - Special Studies-DRAM **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

DRAM 100 - Introduction to Professional Theatre **1 Unit(s)**
Transfer Status: NT 8.5 hours Lecture / 25.5 hours Lab
This course introduces students to the major aspects of professional theatre production. Emphasis is placed on developing an awareness of the artistry, the scope, and the impact of live theatre presentations. Students are responsible for the entire cost of the field trip, including but not limited to transportation, lodging, meals, and admissions to performances. The instructor will select a genre and a specific production, and will lead the students on a guided field trip to attend the production.

Disabled Students Programs/ Services (DSPS)

DSPS 204 - Fundamentals of Reading **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This reading course is designed for students with intellectual disabilities. Each student will be assessed at the beginning of the course and will be provided reading instruction that is closely supervised and individualized based on the results of the assessment.

DSPS 206 - Fundamentals of Math **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This math course is designed for students with intellectual disabilities. Each student will be assessed at the beginning of the course and will be provided math instruction that is closely supervised and individualized based on the results of the assessment.

DSPS 207 - Fundamentals of College **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course is designed for students with disabilities to help identify and compensate for educational limitations and/or acquire the skills necessary to complete their education objectives. Topics covered includes fundamentals of college, college exploration along with community and college resources. The class will also address motivation for college, self-discipline, and how to address stress factors associated with college.

DSPS 210 - Adaptive Computer Lab **0.5 Unit(s)**
Transfer Status: NT 25.5 hours Lab
This is a course involving the use of adaptive computer software and hardware. This course will offer disabled students the opportunity to enhance their skills on a computer via the adaptive hardware and software prescribed for them. The course will be project oriented and will provide students with an opportunity to increase their skills with the prescribed adaptive computer and application software. Pass/No Pass Only. Open Entry/Open Exit.

Economics (ECON)

ECON 2 - Principles of Macroeconomics **3 Unit(s)**
Prerequisite(s): MATH 108 or MATH 116 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture
An introductory course focusing on aggregate economic analysis. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics, and economic growth. (C-ID ECON 202).

ECON 4 - Principles of Microeconomics **3 Unit(s)**
Prerequisite(s): MATH 108 or MATH 116 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture
This is an introductory course focusing on choices of individual economic decision-makers. Topics include scarcity, specialization and trade, market equilibrium, elasticity, production and cost theory, market structures, factor markets, and market failure. (C-ID ECON 201).

ECON 20 - Economic History of the U.S. **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course studies the origin and development of the American Economy from colonial times to the present. It is a study of changes in and the development of land, labor, capital and entrepreneurship over time. It includes the basis for industrial growth, land and resource use, the transportation revolution, the development of money and banking machinery, changing trade patterns, the rise of organized labor, and the economic growth of government.

ECON 20H - Honors Economic History of the U.S. **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This is an Honors level introductory course examining American economic history. The focus of the course is to examine traditional economic development theory in the context of the growth of the American economy. As an honors course, stress is placed upon the understanding of the basic economic models that seek to describe individual and collective economic behavior. Through a process of critical thinking, primary document analysis, and discussions, students will study the origin and development of the American economy from colonial times to the present. Graded Only.

ECON 25 - Introduction to Economics **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is a survey of basic economic concepts. Topics covered include supply and demand, firms' price and output decision making, government regulation, monetary and fiscal policy, current economic issues and factors related to international trade and economic growth. This course is intended for students not majoring in Business Administration.

ECON 35 - Introduction to Environmental Economics **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to contemporary environmental issues and policies meant to reduce environmental degradation. The course examines market failures, tools of policy analysis, government pollution reduction policies and their effectiveness.

ECON 95 - Special Studies-ECON **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Education (EDUC)

EDUC 2 - Introduction to Education **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, Transitional Kindergarten (TK) and Kindergarten through grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California's Standards for the Teaching Profession (CSTP), and Teacher Performance Standards (TPS). In addition to class time, the course requires 51 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. (C-ID EDUC 200).

EDUC 4 - Introduction to Para Education **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course will prepare students to instruct and support diverse individuals as a para-educator. Topics include the history, legislation and documentation of special education and instructional strategies for various disabilities and students from diverse backgrounds. Students will be required to complete fifty-one hours of field experience working with Exceptional Populations in the TK-12 classroom environment.

EDUC 5 - Working With School-Age Children **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines the ways adults influence the development of the school-age child. Building from a foundation of established theory, students will analyze the role schools and communities play in the development of the school-age child and their families including current curriculum and classroom strategies. Career options and requirements as well as the role of the para-educator will be examined.

EDUC 10 - Critical Skills for College Success **0.5 Unit(s)**
Prerequisite(s): Meeting with an instructor in the Center for Academic Success is required to begin this course
Transfer Status: CSU 9.5 hours Lecture
This course is designed to teach specific learning skills in general areas such as reading, writing, math, computer literacy, and study strategies. Requirements for the course include the student's participation in three conferences with Center for Academic Success (CAS) instructors; attendance at eight separate Critical Skills Workshops, each covering a different topic; and completion of homework for each workshop attended. Workshop topics are chosen specific to the individual needs of the student in support of a transfer-level content class selected by the student. Pass/No Pass Only. Open Entry/Open Exit.

EDUC 20 - Tutoring Methods **2 Unit(s)**
Transfer Status: CSU 34 hours Lecture
This class offers instruction in tutoring methods for students interested in communication skills, effective tutoring practices and learning strategies. Students will practice individual and small group tutoring strategies using simulated case studies.

EDUC 95 - Special Studies-EDUC **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

EDUC 99 - Work Experience-EDUC **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

EDUC 100 - On Course for Student Success **1 Unit(s)**
Transfer Status: NT 17 hours Lecture
This first year experience student success course gives students insight into and experience with tools and skills critical for college-level academic success.

EDUC 110 - Critical Skills for College Success **0.5 Unit(s)**
Prerequisite(s): Meeting with an instructor in the Center for Academic Success is required to begin this course
Transfer Status: NT 9.5 hours Lecture
This course is designed to teach specific learning skills in general areas such as reading, writing, math, computer literacy, and study strategies. Requirements for the course include the student's participation in three conferences with Center for Academic Success (CAS) instructors; attendance at eight separate Critical Skills Workshops, each covering a different topic; and completion of homework for each workshop attended. Workshop topics are chosen specific to the individual needs of the student in support of a 100-level content class selected by the student. Pass/No Pass Only. Open Entry/Open Exit.

EDUC 210 - Critical Skills for College Success **0.5 Unit(s)**
Prerequisite(s): Meeting with an instructor in the Center for Academic Success is required to begin this course
Transfer Status: NT 9.5 hours Lecture
This course is designed to teach specific learning skills in general areas such as reading, writing, math, computer literacy, and study strategies. Requirements for the course include the student's participation in three conferences with Center for Academic Success (CAS) instructors; attendance at eight separate Critical Skills Workshops, each covering a different topic; and completion of homework for each workshop attended. Workshop topics are chosen specific to the individual needs of the student in support of a 200-level content class selected by the student. Pass/No Pass Only. Open Entry/Open Exit.

EDUC 302 - High School Equivalency Exam Preparation **0 Unit(s)**
Transfer Status: NT 85 hours Lecture
This course is designed to focus on the development of basic skills needed in preparing for the General Educational Development Tests (GED) and High School Equivalency Test (HiSET) for high school equivalency standards. The course includes background on both High School Equivalency (HSE) Testing Programs, describes the four tests and the broad areas covered by the GED and the five tests covered by the HiSET, evaluates student readiness and prepares students for taking the tests. Emphasis will be placed on development of reading in the areas of literary, informational, social studies and science content; writing clarity; math problem-solving, reasoning skills, and calculator skills. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

EDUC 310 - Supervised Tutoring **0 Unit(s)**
Transfer Status: NT 136 hours Lab
This course provides students tutorial support with instructional aides and student tutors to develop learning skills that enhance classroom achievement. Critical Skills Workshops are offered in many instructional areas. Tutor-supported computer labs are provided for academic use. Unlimited repeats. Ungraded. Open Entry/Open Exit.

Environmental Horticulture (EH)

EH 20 - Introduction to Environmental Horticulture **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to environmental horticulture including nursery operations, landscaping, turf management and arboriculture. Topics include basic botany, cultural practices, propagation, structures and layout, pest management, planting, transplanting, container gardening, houseplants, plant identification, turfgrass installation and care, and a broad survey of the 'Green Industry' and other career opportunities.

EH 22 - Landscape Construction **3 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 102 hours Lab
This course covers the fundamentals of landscape construction including: soil preparation, irrigation system construction, paving and construction materials, hand and power tool use, landscape equipment operation, turf and plant installation, water feature construction and maintenance, plan reading and materials estimating. The course includes the role of building codes as they apply to landscape construction.

EH 23 - Fall Plant Identification **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is a study of identification, growth habits, culture and ornamental use of fall landscape and indoor plants adapted to climates of California. Plants emphasized will come from the current California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) Certification Test Plant Lists. This course covers those plants best observed and studied in the fall of the year. (C-ID AG-EH 108L).

EH 24 - Spring Plant Identification **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is a study of identification, growth habits, culture and ornamental use of spring landscape and indoor plants adapted to climates of California. Plants emphasized will come from the current California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) Certification Test Plant Lists. This course covers those plants best observed and studied in the spring of the year. (C-ID AG-EH 112L).

EH 26 - Landscape Planning and Design **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is a study of the principles utilized in planning and designing residential, commercial, and public landscaped areas. Topics include the fundamentals of design, the design process, and client relations. Emphasis will be placed upon the selection and utilization of plants and non-plant materials included in landscape areas.

EH 28 - Turfgrass Management and Equipment **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to establishing, maintaining and managing turfgrasses for sports athletic fields, golf courses, parks, cemeteries, and commercial and residential lawns. Emphasis is placed on identification of various turfgrass species, installation of proper irrigation, environmental requirements, and maintenance practices.

EH 30 - Irrigation Practices and Materials **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the materials, equipment, installation procedures, operation and maintenance of landscape irrigation systems and their components.

EH 38 - Greenhouse Production **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is a survey of the greenhouse industry. Emphasis will be placed on analysis, description, and operation of greenhouses and other forcing structures. The relationship of light, temperature, moisture, aeration, and humidity to plant growth will be described. Emphasis will be placed on potted plants grown for foliage or flowers, cut flowers and bedding plant production.

EH 40 - Wine Grape Cultivation **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an introduction to the science and industry of viticulture including grape growing, history, distribution, biology, anatomy, propagation, cultivated varieties, rootstocks, climate, vineyard practices, common diseases and pests.

EH 41 - Wine Growing Practices - Fall **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course will cover viticulture practices related to wine grapes for the fall and winter season including sugar and acid testing, harvesting, pruning, varietal selection and vineyard development. Emphasis will be placed on practical applications of viticulture.

EH 42 - Wine Growing Practices - Spring **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course will teach viticulture practices related to wine grapes for the spring and summer season including planning and planting a new vineyard, pest control, soils, frost control, irrigation practices, quality control measures and vineyard equipment use. Emphasis will be placed on practical applications of viticulture.

EH 43 - Wine Styles and World Viticulture **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is a survey of the world viticulture and wine industries. It covers the following: history of viticulture, wine effects on culture and trade, worldwide grape growing, worldwide wine production and consumption, world wine regions and sensory evaluations.

EH 44 - Wine Vineyard Management **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is designed for students to learn the responsibilities of vineyard management including diagnosis and correction of problems, vineyard development, financial projections and budgeting, labor contracting, labor supervision, and crop sale contracts as they relate to wine grapes.

EH 47 - Fall Winery Operations **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course covers winery operations for the fall season, including grape maturity monitoring; grape harvesting; fermentation, handling and storage of new wines; maintenance of wines from previous vintages; general cellar practices. Students will participate in the operations of the working winery. Students must be at least 21 years of age in order to participate in wine tasting.

EH 48 - Spring Winery Operations **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
The course covers winery operations for the spring season, including handling and storage of new wines; maintenance of wines from previous vintages; general cellar practices. Students will participate in the operations of a working winery. Students must be at least 21 years of age in order to participate in wine tasting.

EH 60 - Principles of Integrated Pest Management **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course covers the origin, history, and management of insect, plant pathogen, weed, and other pests of field and horticulture crops. Pest biology and life cycles are studied to demonstrate the use of various Integrated Pest Management (IPM) technologies for economic crop production. Pesticide regulations, application, formulations, and materials for specific uses are covered.

EH 61 - Plant Protection Materials **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course will introduce the history, laws and regulations, safe and responsible use, toxicology, risks, benefits, and sustainability in the use of horticultural and agricultural chemicals including pesticides, fertilizers, plant growth regulators, defoliants, and antimicrobials. Throughout the course applied examples will be used to generate discussion and aid in the students' ability to formulate integrated agrichemical management programs.

EH 62 - Weed Science and Invasive Plants **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the classification, identification, and life cycles of common poisonous and invasive weeds. Topics include the biological, chemical, cultural, and physical control of weeds. Characteristics of weeds and their identification, and herbicide application will be examined.

EH 66 - Orchard Production and Management **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the management of fruit and nut trees. Topics include climate zones, soil selection, financing, farm organization, irrigation systems, field layout, varietal selection, nutritional needs, harvesting, labor management, marketing, and budgeting.

EH 70 - Plant Propagation and Nursery Practices **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to plant propagation and production practices with emphasis on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control; structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment; regulations pertaining to plant production. (C-ID AG-EH 116L).

EH 72 - Landscape Business Management **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course covers the skills and knowledge necessary to be successful in a management position for a landscape company, public/private park system, golf course and other 'Green Industry' operations. Emphasis will be placed on operational procedures of the business such as determining annual overhead, planning for recovery of that overhead, hiring and managing procedures of employees and determining 'true' profit. This course is also designed to encourage development of 'take-off' and bidding skills for the construction industry.

EH 74 - Irrigation System Design **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is a study of the design of irrigation and drainage systems. Emphasis will be placed on pipe sizing, friction loss calculations, pressure requirements, pumping stations, points of connection and backflow prevention devices. The students will learn mathematic equations/calculations used for proper design and installation.

EH 99 - Work Experience-EH **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

EH 130 - Introduction to Irrigation Materials **1 Unit(s)**
Transfer Status: NT 8.5 hours Lecture / 25.5 hours Lab
This course is an introduction to the materials specified and used in the construction and maintenance of residential and light commercial irrigation systems.

EH 131 - Irrigation Practices I **1 Unit(s)**
Transfer Status: NT 8.5 hours Lecture / 25.5 hours Lab
This course is an introduction to the practices used in the specification, selection and use of irrigation equipment for construction of residential and light commercial irrigation systems.

EH 132 - Irrigation Practices II **1 Unit(s)**
Transfer Status: NT 8.5 hours Lecture / 25.5 hours Lab
This course is an introduction to the practices of finish installation, troubleshooting and maintenance of residential and light commercial irrigation systems, as well as reading and interpreting basic irrigation system designs.

Emergency Medical Services (EMS)

EMS 97 - Special Problems-EMS **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

EMS 99 - Work Experience-EMS **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education advisor/ instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

EMS 110 - Emergency Medical Responder **4 Unit(s)**
Prerequisite(s): American Heart Association Professional Health Care Provider CPR or equivalent and must be 18 years of age as of first day of class
Transfer Status: NT 51 hours Lecture / 51 hours Lab
This course will instruct students to the level of Emergency Medical Responder (EMR). The primary focus of the EMR is to initiate immediate lifesaving care to critical patients who access the emergency medical system. The course covers the basic knowledge and skills necessary to provide lifesaving interventions while awaiting additional Emergency Medical Service (EMS) response and to assist higher level personnel at the scene and during transport. Upon successful completion of the course, students will be eligible to take the exam required for certification as an EMR in the state of California.

EMS 111 - Emergency Medical Technician **7 Unit(s)**
Prerequisite(s): American Heart Association Professional Health Care Provider CPR or equivalent and must be 18 years of age as of first day of class
Transfer Status: NT 102 hours Lecture / 72 hours Lab
This course will instruct students to the level of Emergency Medical Technician (EMT). This course complies with the required course content for the state of California and the curriculum consists of the required U.S. Department of Transportation EMT-Basic National Standard Curriculum. The course includes all skills necessary for the individual to provide emergency medical care at a basic life support level with an ambulance service or other specialized service. Upon successful completion the student will be eligible to take the National Registry Exam required for certification as an EMT in the state of California. Graded Only.

EMS 170 - Paramedic-Theory **21 Unit(s)**
Prerequisite(s): Admission to the Paramedic Program
Transfer Status: NT 306 hours Lecture / 153 hours Lab
This course is the first of a two-semester long program that provides the Paramedic student the didactic information and skills required to meet the state of California requirements for paramedic training. The course meets accreditation requirements of the Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP). The course follows U.S. Department of Transportation Paramedic National Standard Curriculum. Upon successful completion of EMS 170 and EMS 171 the student will be eligible to take the National Registry Exam required for licensure as a Paramedic in the state of California. Anatomy and Physiology will be covered extensively throughout the course. Graded Only.

EMS 171 - Paramedic Clinical and Field Internship **15.5 Unit(s)**
Prerequisite(s): EMS 170
Transfer Status: NT 796 hours Lab
This course provides the Paramedic student simulation skills lab, hospital clinical and field internship experience required to meet the state of California requirements for paramedic training. The course meets accreditation requirements of the Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP). The course follows U.S. Department of Transportation Paramedic National Standard Curriculum. Upon successful completion, in combination with successful completion of EMS 170, the student will be eligible to take the National Registry Exam required for licensure as a Paramedic in the state of California. Graded Only.

EMS 172 - Community Paramedic - Mobile Integrated Health Care **6 Unit(s)**
Prerequisite(s): Licensed paramedic
Transfer Status: NT 51 hours Lecture / 170 hours Lab
This course provides training for the licensed paramedic to provide Mobile Integrated Healthcare as a Community Paramedic (CP) within a local Emergency Medical Service Agency provision. Emphasis is placed upon defining the boundaries of the CP role, identifying the social determinants of health, identifying community health needs and available services, and performing community education and outreach to ensure the public is aware of available health services. Students will also be trained in a variety of clinical interventions that are relevant to the role of the CP.

EMS 203 - Emergency Medical Technician Refresher **1 Unit(s)**
Prerequisite(s): EMS 111 and must possess a valid EMT Certificate in the State of California which is current or has been expired for no more than 24 months and a Healthcare Provider level CPR equivalent to the American Heart Association
Transfer Status: NT 8.5 hours Lecture / 25.5 hours Lab
This course meets the requirements for an individual to re-certify as a California State Emergency Medical Technician (EMT). Pass/No Pass Only.

English (ENGL)

ENGL 2 - Reading and Composition **3 Unit(s)**
Prerequisite(s): ENGL 118, ENGL 119 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture
This course develops college-level critical reading and writing practices. Students will critically read expository, argumentative, and fictional texts and develop expository, persuasive, and argumentative academic writing. Essays will demonstrate reading comprehension, analysis, critique, academic research, and synthesis. (C-ID ENGL 100). Graded Only.

ENGL 3 - Reading and Composition Intensive **4 Unit(s)**
Prerequisite(s): ENGL 219 or, ENGL 119 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture / 34 hours Activity
This course builds on literacy practices by developing expository and argumentative writing, awareness of audience, purpose and appropriate and effective use of language, close reading, cogent thinking, research strategies, information literacy, and documentation. Students will critically read and write primarily expository and argumentative texts that respond to a variety of rhetorical situations and contexts and incorporate college-level research. (C-ID ENGL 100) Graded Only.

ENGL 4 - Introduction to Literature **3 Unit(s)**
Prerequisite(s): ENGL 2 or ENGL 3
Transfer Status: CSU/UC 51 hours Lecture
This course concentrates on introducing students to a wealth of representative literary works from the major genres. Additionally, the course develops the basic skills necessary in literary analysis, namely critical reading, analytical writing, and research methods. Emphasis is placed on investigating and appreciating the cultural, historical, and aesthetic aspects of literary works chosen from at least four of the five literary genres. (C-ID ENGL 120). Graded Only.

ENGL 6 - Creative Writing **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to the craft of creative writing through the study and analysis of the works of established and peer writers. Students will practice writing in various genres and will be introduced to the workshop method. (C-ID ENGL 200). Graded Only.

ENGL 8 - British Literature I **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introductory survey to the seminal works, genres and eras of the development of literature in English in the British Isles, from the early Medieval to the Renaissance and 17th century, to conclude with the Augustan literature of the 18th century. It is designed for students seeking an introductory survey of British literature, its figures, and movements. Authors include Chaucer, Spenser, Milton, Shakespeare, Swift, and others. (C-ID ENGL 160). Graded Only.

ENGL 10 - British Literature II **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introductory survey of British literature's seminal works, genres, and movements, from the late 18th century to contemporary British and post-colonial texts. It pays special attention to major authors from the Romantic, Victorian, and modern periods, and promotes understanding of the major works of these periods within their cultural and historical contexts. Designed for students seeking an introduction to British literature and its key figures, this course should supplement the literary knowledge of humanities students as well as prospective English majors. Authors include Blake, Wordsworth, Coleridge, Austen, Dickens, and others. (C-ID ENGL 165). Graded Only.

ENGL 11 - Communication and Critical Thinking **3 Unit(s)**
Prerequisite(s): ENGL 2 or ENGL 3
Transfer Status: CSU/UC 51 hours Lecture
This course offers instruction in argumentation and critical writing, critical thinking, analytical evaluation of texts, research strategies, information literacy, and proper documentation. (C-ID ENGL 105).

ENGL 14 - U.S. Literature I **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a study of influential works of U. S. Literature from the colonial beginnings through the second half of the nineteenth century. It will include the influence of European and other traditions and cultural backgrounds, as well as various political, social, economic, ecological, and geographical influences and implications that have sustained, shaped, and inspired Americans. Materials will come from a variety of genres. (C-ID ENGL 130). Graded Only.

ENGL 15 - Film as Literature **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course will examine the nature and meaning of the narrative structure of film, placing particular emphasis on literary themes and elements. Through the use of fictional, historical and technical readings, and an examination of a multi-genre range of classic and contemporary films' textual contexts, students will improve their analytical skills, as well as gain a deeper understanding of the dynamics of the written word as the literary foundation of the cinema. Graded Only.

ENGL 16 - U.S. Literature II **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a study of influential works of U. S. Literature from the second half of the nineteenth century to present. It will include the influence of European and other traditions and cultural backgrounds, as well as various political, social, economic, ecological, and geographical influences and implications that have sustained, shaped, and inspired Americans. Materials will come from a variety of genres. (C-ID ENGL 135). Graded Only.

ENGL 20 - Introduction to Poetry **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
In this course students will study the contemporary poetry of various cultures, styles and literary movements. Emphasis is placed upon deepening the student's understanding of poetry in a historical and social context. Graded Only.

ENGL 21 - Mythology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introductory survey of selected mythologies, including Greek, Hindu, Chinese, Biblical, Native American/Traditional, Mayan/Toltec/Aztec, European, African, and others. Emphasis is on the cultural importance of the stories and the religious importance of the rituals surrounding the myths. The course will include readings from mythology and scholarly works on mythology. The goal of this course is to produce an understanding of the function and force of mythology. Graded Only.

ENGL 25 - Introduction to Shakespeare **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course introduces students to Shakespeare, his works, and his world through lecture, reading, projects, and discussion. This course analyzes representative tragedies, comedies, histories, and sonnets. Graded Only.

ENGL 26 - Queer Film and Literature **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course examines representations of "queer" sexuality and identity in films and literary texts ranging from turn-of-the-century works that encode homosexuality in an assortment of ways to contemporary works that explore a variety of lesbian, gay, bisexual, transgender, queer, questioning, intersex, asexual, ally and pansexual (LGBTQ+) identities. This course emphasizes the diversity of perspectives on homosexuality and gender that may be found in twentieth-century film and literature, and highlights how texts by self-identified LGBTQ+ authors have responded and contributed to U.S. culture and history. Graded Only.

ENGL 31 - Existential Literature: A Literary Approach to Self Integration **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
Through a variety of short stories, novels and poems dealing with existential themes, this course will help the student explore the literary, psychological, philosophical and theological implications of defining and taking responsibility for oneself in the quest for self-actualization. Graded Only.

ENGL 35 - Cross-Cultural Film and Literature **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course presents a comparative examination of films and literature that reflect the richness and diversity of global cultures. Images, voices, and ideas from a wide selection of countries will be the basis for aesthetic inquiry and understanding. Global cultures, as portrayed through film and literature, will be examined in terms of uniqueness and universality. Graded Only.

ENGL 45 - Latino Literature and its Latin American Roots **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of Latino and Latina authors in the United States. The course will trace the origin of Latino works to the literature and culture of various Latin American countries, and then it will demonstrate how Latino literature emerged as a unique artistic form in the United States. All works will be studied within their historical, political, social, gender, economic, and geographical contexts. Graded Only.

ENGL 47 - Native American Literature **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course will examine a diverse selection of Native American literary texts from the eighteenth century to the present. Emphasis is placed on historical and cultural context as well as on how texts authored by Native Americans have contributed to U.S. culture and history.

ENGL 52H - Honors Great Works of Literature **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an Honors level introduction to some of the world's great novels, poetry, drama, and essays, including some of the oldest texts of our past. The primary focus will be on analyzing complete works from a variety of genres, eras, and countries. We will place the texts into context, ascertain what they say to the reader, and identify the tools the authors use to convey their message. Brief works of literary criticism will provide the basis for a wide range of critical approaches such as social, historical, mythological, gender, psychological, cultural, etc. Graded Only.

ENGL 53H - Honors World Literature **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an honors level survey of important 20th- and 21st-century works of literature by a diverse selection of authors representing different cultures. Short works of theory will provide the foundations for a postcolonial approach to contemporary world literature, but our primary focus will be on reading and analyzing complete novels from as many different contemporary cultures as possible to expose some of the ways that identity, power, law, ethics, economics, and familial structures have been constructed and reconstructed through conflicts within and between these cultures. Graded Only.

ENGL 60 - Creative Writing: Fiction **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course develops an awareness of literary fiction as an art form both through the reading of short works of fiction and writing of exercises and complete stories. Emphasis is placed on the development of essential elements necessary for the writing of fiction and on the workshop format as a method for developing understanding and analysis of fiction. The assignments are interconnected in order to help students incorporate the skills they are practicing into increasingly difficult pieces. Graded Only.

ENGL 95 - Special Studies-ENGL **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

ENGL 118 - Accelerated Composition Workshop, I and II **4 Unit(s)**
Transfer Status: NT 68 hours Lecture
This course combines the content of English 219 and English 119 and prepares students for college-level writing. Students will develop composition, critical reading, and critical thinking skills and an understanding of the choices writers make in different writing situations. Reading and writing processes will be integrated as students implement strategies for comprehending, analyzing, critiquing, and responding to readings in organized and logically developed essays. Additionally, students will conduct basic research and evaluation of sources.

ENGL 119 - Composition Workshop II **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course prepares students for college-level writing. Students will implement strategies for comprehending, analyzing, critiquing, and responding to readings in organized and logically developed essays. Additionally, students will conduct basic research and evaluation of sources.

ENGL 215 - Foundations of Writing **4 Unit(s)**
Transfer Status: NT 68 hours Lecture
This course prepares students for reading, writing and critical thinking at an introductory level. The focus will be on using computer systems and library resources to produce a variety of vocational and academic written texts. Texts produced might include inquiry projects, short papers, reading responses, letters, summaries, and journals. Students will also develop an understanding of the choices writers make in different writing situations. Pass/No Pass Only.

ENGL 217 - Basic Writing Skills **4 Unit(s)**
Transfer Status: NT 68 hours Lecture
In this course students will develop reading, writing and critical thinking skills at a basic level. The focus will be on using computers, the Internet and library resources to produce a variety of vocational and academic written texts. Students writing might include inquiry projects, essays, reports, reviews, summaries, quick writes and journals. Students will also develop an understanding of the choices writers make in different writing situations. Pass/No Pass Only.

ENGL 218 - Accelerated Reading and Writing **4 Unit(s)**
Transfer Status: NT 68 hours Lecture
In this course students will develop reading, writing, critical thinking, and research skills for success in college classes. Emphasis will be on the choices writers make in different writing situations and developing digital literacy to support college writing. Students will use digital and library resources to produce a variety of formal and informal written texts. In the process students will discover campus resources and use metacognitive strategies to improve their learning. Pass/No Pass Only.

ENGL 219 - Composition Workshop I **4 Unit(s)**
Prerequisite(s): See "AB 705 Placement Guidance" in the Butte College Catalog
Transfer Status: NT 68 hours Lecture
In this course students will further develop basic composition, research, critical reading, and critical thinking skills. The focus will be on producing a variety of vocational and academic written texts (including essays, reports, reviews, summaries, quick writes, and journals). Students will also develop an understanding of the choices writers make in different writing situations. Pass/No Pass Only.

ENGL 319 - Grammar and Punctuation for College Writing **0 Unit(s)**
Transfer Status: NT 34 hours Lecture
This course will support students in producing effective college-level writing. Students will learn how grammar, punctuation, sentence structure, and word choice impact their writing. The focus will be on utilizing critical thinking in regards to how these decisions can be used for various audiences and purposes. Students will read, analyze, and produce a variety of written texts. Coursework is designed to improve the quality of student writing and increase their confidence in college, work, and life. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times. Satisfactory/Unsatisfactory Only.

Engineering (ENGR)

ENGR 1 - Introduction to Engineering **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
The course explores the career branches of engineering including the functions of an engineer in various settings and the industries in which engineers work. Topics will span the life cycle of the engineering professions from education to career including guided exploration of educational pathways, time-management, study-skill development through engineering-skill building activities focused on design and creation of products and ethical practices. The engineering process will be used to develop essential project management skills in the context of being introduced to ubiquitous systems used by engineers such as sensors, pneumatics, hydraulics, AC and DC motor control, simple electrical circuits, machine controllers, programming, and computational tools for testing and analysis. A spreadsheet program (Microsoft Excel) and high-level computer language programs (MATLAB) are integral parts of the course. (C-ID ENGR 110)

ENGR 3 - Plane Surveying I **3 Unit(s)**
Prerequisite(s): MATH 20 or high school trigonometry
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
The course applies theory and principles of plane surveying: office computations and design; operation of surveying field equipment; and production of engineering plans/maps. Topics include distances, angles, and directions; differential leveling; traversing; property/boundary surveys; topographic surveys/mapping; volume/earthwork; horizontal and vertical curves; land description techniques; and Global Positioning Systems (GPS). Extensive field work using tapes, levels, transits, theodolites, total stations, and GPS. (C-ID ENGR 180).

ENGR 4 - Plane Surveying II **3 Unit(s)**
Prerequisite(s): ENGR 3
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course introduces students to civil engineering design standards, concepts and procedures related to transportation engineering and construction management. Topics include the standards and design of horizontal curves, vertical curves and earthwork related to transportation projects in addition to survey staking, state plane coordinates, geographic information systems and Global Positioning Systems (GPS) related to project surveying. The laboratory portion of the course includes the application of 3-dimensional graphic modeling software requiring creativity in design, development of construction plans, and operation of modern surveying equipment, such as total stations and GPS.

ENGR 8 - Statics **3 Unit(s)**
Prerequisite(s): MATH 31, PHYS 41
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
A first course in engineering mechanics: properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia. Optional additional topics include fluid statics, cables, Mohr's circle and virtual work. (C-ID ENGR 130).

ENGR 17 - Electrical Circuits and Devices **4 Unit(s)**
Prerequisite(s): PHYS 42, MATH 40 (or concurrent enrollment)
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
An introduction to the analysis, construction and measurement of electrical circuits. Use of analytical techniques based on the application of circuit laws and network theorems. Basic use of electrical test and measurement instruments including multimeters, oscilloscopes, power supplies, and function generators. Use of circuit simulation software. Interpretation of measured and simulated data based on principles of circuit analysis for Direct Current (DC), analysis, transient, and sinusoidal steady-state Alternating Current (AC) conditions containing resistors, capacitors, inductors, dependent sources, operational amplifiers and/or switches. Elementary circuit design. Practical considerations such as component value tolerance and non-ideal aspects of laboratory instruments. Construction and measurement of basic operational amplifier circuits. Natural and forced responses of first and second order RLC circuits; the use of phasors; AC power calculations; power transfer; and energy concepts. (C-ID ENGR 260/260L).

ENGR 45 - Materials Science **4 Unit(s)**
Prerequisite(s): PHYS 41, CHEM 1
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course presents the internal structures and resulting behaviors of materials used in engineering applications, including metals, ceramics, polymers, composites, and semiconductors. The emphasis is upon developing the ability both to select appropriate materials to meet engineering design criteria and to understand the effects of heat, stress, imperfections, and chemical environments upon material properties and performance. Laboratories provide opportunities to directly observe the structures and behaviors discussed in the course, to operate testing equipment, to analyze experimental data, and to prepare reports. (C-ID ENGR 140B).

ENGR 97 - Special Problems-ENGR **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

ENGR 99 - Work Experience-ENGR **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

English as a Second Language (ESL)

ESL 95 - Special Studies-ESL **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

ESL 300 - American Citizenship **0 Unit(s)**
Transfer Status: NT 85 hours Lecture
This course prepares adult immigrants to complete the naturalization process in order to become U.S. Citizens. Students will develop English language skills (reading, writing, listening, speaking, vocabulary, and grammar) and civics knowledge (history and government) necessary to complete the Application for Naturalization (N-400), Civics Test, Writing Test, Reading Test, and final U.S. Citizenship and Immigration Interview. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

ESL 310 - Survival/Life Skills for ESL Students **0 Unit(s)**
Transfer Status: NT 85 hours Lecture
This course provides a conversational approach to the learning of elementary English. It offers the non-native English speaker practice in verbal communication with special emphasis on literacy and life skills. The introduction to basic literacy skills reinforces spoken and written English. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

ESL 311 - ESL Level 1 **0 Unit(s)**
Transfer Status: NT 85 hours Lecture
This course moves the non-native English speaking student from basic literacy skills to more in-depth practice with foundational grammatical structures and expressions in English. Speaking and listening skills are practiced, with introduction to writing and reading utilizing appropriate level texts. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

ESL 312 - ESL Level 2 **0 Unit(s)**
Transfer Status: NT 85 hours Lecture
This course reinforces and expands a non-native English speaking student's literacy and communication skills for life, college, and career. It engages students in collaborative activities that integrate reading, writing, speaking, and listening. Intermediate grammar and vocabulary are introduced in context. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

ESL 313 - ESL Level 3 **0 Unit(s)**
Transfer Status: NT 85 hours Lecture
This course assists a non-native English-speaking student in developing communication for life, career, and college. Through the integration of reading, writing, speaking and listening activities in English, this course prepares the student to communicate academically and introduces intermediate-to-advanced level grammar structures in context. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

ESL 340 - Technology Skills for ESL Students **0 Unit(s)**
Transfer Status: NT 85 hours Lecture
This course will support multilingual students as they acquire English-language and digital literacy practices to become users and creators of digital content. Students will use technology to engage in authentic English communication in a variety of personal, professional, and academic contexts. Students will engage in reading, writing, speaking, and listening strategies by exploring a variety of digital texts, genres, cultural artifacts, platforms, applications, and programs. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

ESL 352A - ESL Workforce Training Adult Education **0 Unit(s)**
Transfer Status: NT 200 hours Lecture
This course is an intensive language acquisition course that prepares non-native speakers of English to enter the work force. The focus is on building communication skills necessary to succeed at entry level positions in a variety of jobs. This course is designed to meet state and county requirements for the CalWORKs program. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

ESL 352B - ESL Workforce Training Lab **0 Unit(s)**
Transfer Status: NT 64 hours Lab
This course is an intensive work experience for non-native speakers of English which provides students with direct experience in various work environments, including but not limited to the following: food service, shipping and receiving, child care, grounds, and waste management. This on-the-job experience is integrated with language instruction. This course is designed to meet state and county requirements for the CalWORKs program. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

ESL 354 - Training-Specific Vocational ESL **0 Unit(s)**
Transfer Status: NT 64 hours Lecture
These workshops provide non-native English speaking students the opportunity to learn job-specific language needed to obtain gainful employment. Each workshop will have concurrent enrollment with a specific job-training course such as early childhood education, horticulture, construction, etc. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

Fashion (FASH)

FASH 6 - Understanding Fibers, Fabric, and Textiles **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course introduces students to fibers and their origin, yarns, basic weaves and fabric finishes, with reference to fabric selection for use in fashion and interior design. Emphasis is placed on the selection, use and care of new fibers and fabrics. The course also examines the impacts of textile laws, regulations and trade agreements.

FASH 9 - Clothing Construction I **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This is a beginning course in clothing construction. Topics include pattern selection and layout, selection of fashion fabrics and interfacings, seam finishes and design features. Students will develop their sewing skills though the construction of garments and samples utilizing professional sewing techniques.

FASH 10 - Clothing Construction II **3 Unit(s)**
Prerequisite(s): FASH 9
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This is an intermediate course in clothing construction. This course emphasizes construction of a capsule wardrobe focusing on a variety of novelty fashion fabrics. The course emphasizes personal fitting and custom dressmaking utilizing intermediate sewing techniques.

FASH 13 - Fashion Drawing and Illustration **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course will introduce students to the techniques and applications of fashion drawing and illustration: developing the fashion figure with proportion and balance, drawing a variety of garment silhouettes and rendering fabrics and textures. Techniques using a variety of color and black/white media will also be explored.

FASH 18 - Visual Merchandising **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to the basic concepts of visual merchandising. Utilizing basic techniques, students create miniature displays, interior displays, and full-scale window productions. Students study current trends and analyze local retail displays.

FASH 40 - Flat Pattern/Draping Design **3 Unit(s)**
Prerequisite(s): FASH 10
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This is a beginning course in flat pattern and draping design. The focus is on design, pattern drafting and draping for the theater, film and fashion industries.

FASH 64 - Introduction To Fashion/Retail Careers **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an introduction to the world of fashion and retailing through an in-depth study of the history of fashion, terminology, designers, apparel production and distribution, merchandising techniques, and career opportunities. Career development strategies including resumes, cover letters and interviewing will be addressed.

FASH 74 - Historic Costume **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to the history of clothing and costume including the influence of historic attire on current fashion apparel. The course examines the impacts of social class, religion and political conditions on expression through dress.

FASH 80 - Retail Fashion Buying **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to the process of buying fashion merchandise for ultimate purchase by consumers. Topics include the principles and practical application of fashion buying, the role of the fashion buyer and the techniques of handling the complete buying-selling cycle.

FASH 90 - Fashion Promotions **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to contemporary fashion productions including fashion shows, fashion videos, and retail promotions. Students will learn how to plan and produce various aspects of the promotion including the staging, lighting, music, models, modeling, writing commentary, and rehearsals.

FASH 97 - Special Problems-FASH **1 - 3 Unit(s)**
Prerequisite(s): Permision of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

FASH 99 - Work Experience-FASH **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Food & Nutrition (FN)

FN 2 - Nutrition **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course examines the scientific concepts of nutrition related to the function of nutrients in basic life processes and current health issues with emphasis on individual needs. (C-ID NUTR 110).

FN 8 - Maternal and Child Nutrition **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines the nutrition required for optimal physical and mental development of children from conception through adolescence. Topics include the nutritional requirements of pregnant and lactating women, infants, children, and adolescents, social and cultural influences on optimal nutrition, and the ability to recognize and manage developmental feeding disorders.

FN 10 - Food Safety and Sanitation **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to principles of food safety and Hazard Analysis and Critical Control Points (HACCP) as it applies to the food industry. As part of the course the student will receive a ServSafe® Certification from the National Restaurant Association Education Foundation and an approved HACCP certification if they receive a minimum of 75 percent on the respective examinations.

FN 15 - Introduction to Nutrition, Dietetics and Food Science **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
This course is an exploration of the professional scope of practice, career opportunities and educational requirements in the field of nutrition, dietetics, food science and other related professions. Students will be introduced to the professional roles, ethics, skills, responsibilities, opportunities, and professional associations in the degree of Nutrition, Dietetics and Food Science. Students will identify campus resources that support academic success.

FN 50 - Nutrition and Diet Therapy **4 Unit(s)**
Transfer Status: CSU 68 hours Lecture
This course introduces the basic principles of nutrition related to health and disease. The course focuses on the diseases that affect nutritional status and the medical nutrition therapy that is used to manage and treat these conditions.

FN 97 - Special Problems-FN **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

FN 99 - Work Experience-FN **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

French (FREN)

FREN 1 - First Semester French **4 Unit(s)**
Transfer Status: CSU/UC 68 hours Lecture
This course is a study of beginning French emphasizing grammar, reading, writing and speaking. It also introduces the student to various aspects of the cultures of French-speaking regions. Students who have completed at least one, but fewer than two years of high school French (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should register for Second Semester French.

FREN 2 - Second Semester French **4 Unit(s)**
Prerequisite(s): FREN 1
Transfer Status: CSU/UC 68 hours Lecture
This course is the second half of beginning French, which further develops the understanding, speaking, writing and reading skills. It continues to introduce students to various aspects of the cultures of French-speaking regions. Students who have completed at least two, but fewer than three years of high school French (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should consult the appropriate language instructor before enrolling.

FREN 95 - Special Studies-FREN **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Fire Science/Academy (FSC)

FSC 2 - Introduction to Fire Science **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course provides an overview of fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. (C-ID FIRE 100-X)

FSC 4 - Fundamentals of Fire Behavior and Combustion **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course explores the theories and fundamentals of how and why fires start, spread and are controlled.

FSC 6 - Fire Tactics and Strategy **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to the principles of fire control in municipal and suburban environments. It includes an overview of the utilization of human resources, equipment and extinguishing agents on the fireground.

FSC 8 - Principles of Fire Safety **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout the emergency services.

FSC 10 - Building Construction for Fire Protection **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, pre-planning fire operations and operating at emergencies. (C-ID 130-X)

FSC 12 - Fundamentals of Fire Prevention **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course provides fundamental knowledge relating to the filed of fire prevention. Topics include: history and philosophy of fire prevention; organization of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. (C-ID FIRE 110X)

FSC 14 - Fire Protection Equipment and Systems **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course provides information relating to the features of design and operation of fire alarm systems, water-based suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. (C-ID FIRE 120-X)

FSC 16 - Fire Company Organization and Management **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to fire department organizations. It includes an overview of organizational structure, and an in depth examination of the role of the company officer. Planning, organizing, supervising and managing to meet the needs of the fire department mission are emphasized.

FSC 18 - Basic Wildland Firefighting **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course prepares students to meet the requirements to qualify and seek employment as a Type 2 Wildland Firefighter. It provides students with fundamental knowledge of wildland fire behavior, control, prevention and firefighter safety. Students will learn suppression and survival methods and techniques, and the use of hand and power tools and burning devices in the suppression of wildland fires. Upon successful completion of this course, students will be awarded certificates for the following National Wildland Fire Training courses: S-110 Basic Wildland Fire Orientation; S-130 Firefighter Training; S-190 Introduction to Wildland Fire Behavior; L-180 Human Factors in the Wildland Fire Service; I-100 Introduction to Incident Command System and NIMS 700 Introduction to National Incident Management System.

FSC 97 - Special Problems-FSC **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

FSC 99 - Work Experience-FSC **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

FSC 100 - I-300 Intermediate Incident Command System **1 Unit(s)**
Prerequisite(s): I-200 Basic Incident Command System (open to the public: http://training.fema.gov/is/courseoverview.aspx?code=IS-200.b)
Transfer Status: NT 24 hours Lecture
The course expands on the Basic Incident Command System course (ICS 1-200) by providing additional description and detail of the organization and operation of the Incident Command System (ICS). Emphasis is placed on preparing students for supervisory roles in expanding incidents. Pass/No Pass Only.

FSC 101 - I-400 Advanced Incident Command System **1 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 17 hours Lecture
This course expands on the Intermediate ICS course (I-300). Students in this course will be provided with the knowledge and skills associated with executive level authority, decision making and operational understanding in the Incident Command System (ICS) at large, single-agency and complex multi-agency/multi-jurisdictional incident responses. Topics covered include fundamentals review for command and general staff, major and/or complex incident/event management, area command and Multi-agency Coordination (MAC). Pass/No Pass Only.

FSC 102 - Incident Management 2 **1.5 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 24 hours Lecture / 16 hours Lab
This is an introductory all-risk control course which stresses the management and decision-making responsibilities of the initial attack Incident Commander in fire operations. The students will have the opportunity to plan, organize, direct and control their resources to meet a series of simulated emergency situations ranging from medical to hazardous material, to wildlife fire to structural fire control. Pass/No Pass Only.

FSC 103 - Progressive Discipline **0.25 Unit(s)**
Transfer Status: NT 4.25 hours Lecture
This course prepares students for work in increasingly responsible roles as supervisors and managers. Students will learn the role and responsibility of the supervisor in the progressive discipline process, and receive instruction on the differences between prevention, corrective action and adverse plan. Documentation of performance issues in employment will be emphasized. Pass/No Pass Only.

FSC 104 - Supervision 2 **2 Unit(s)**
Transfer Status: NT 40 hours Lecture
This course is next in a series which prepare the student for increasingly responsible roles as a manager in the fire service. Students will be provided with the knowledge and skills necessary to develop an effective style of supervision and leadership. Emphasis will be placed on the topics of time management, progressive discipline and the development of team work. Pass/No Pass Only.

FSC 105 - Fire Academy Physical Training **2.5 Unit(s)**
Co-requisite(s): FSC 106
Transfer Status: NT 10 hours Lecture / 118 hours Lab
This course prepares fire science students for the pre-employment physical ability test in the Firefighter I Academy. Emphasis is placed on lifetime fitness, principles of physical fitness, individual fitness programs, managing body composition, stress indicators and management, nutrition, development of muscular strength and cardiovascular efficiency. Students will undergo physical assessment at the onset and conclusion of the course. This course meets California State Fire Marshall certification requirements.

FSC 106 - Firefighter I Academy **25.5 Unit(s)**
Prerequisite(s): Must complete Butte College Fire Academy orientation; Must provide proof of completion of a medical suitability examination; Must provide evidence of a current personal immunization record; Provide current evidence of a negative TB test that is less than 2 years old; a current cardiopulmonary resuscitation (CPR) card; must provide uniforms as per academy specifications
Co-requisite(s): FSC 105
Transfer Status: NT 297.5 hours Lecture / 421.5 hours Lab
This course conforms to standards for certification established by the California State Board of Fire Services. Instruction includes basic psychomotor firefighter skills, fire behavior, personnel rules and regulations, professional organizations, fire control techniques and strategies, fireground operations, equipment operations, Incident Command System (ICS), Hazardous Materials (HazMat) operations, terrorism concepts, and loss control. Meets the requirements for certification as an Emergency Medical Technician (EMT). Graded Only.

FSC 111 - CAL FIRE Basic 69 Hour Course **3 Unit(s)**
Transfer Status: NT 45 hours Lecture / 24 hours Lab
This course provides students with the fundamental knowledge of the factors affecting wildland fire behavior and control, as well as firefighter safety. With successful completion of this course, students will receive the basic fire training certifications to qualify for entry-level employment with CAL FIRE or a federal wildland firefighting crew. Pass/No Pass Only.

FSC 117 - C-362 Cost Unit Leader **1.5 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 32 hours Lecture
This course prepares the student to be able to function as a Cost Unit Leader in an Incident Command System (ICS) organization. Topics covered include setting up systems for collecting and documenting expenditures related to incidents, establishment of procedures for collecting cost data, coordination with various related personnel, and preparation of reports in accordance with standard policies and procedures. Pass/No Pass Only.

FSC 118 - C-363 Compensation/Claims Unit Leader **2 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 40 hours Lecture
This course will prepare the student to be able to function as a Compensation/Claims Unit Leader in an Incident Command System (ICS) organization. Emphasis will be placed on development of systems for investigating, documenting and processing claims; initiating investigation of claims; and preparation of claim reports in accordance with standardized policies and procedures. Pass/No Pass Only.

FSC 119 - C-365 Time Unit Leader **2 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 40 hours Lecture
This course is intended to prepare the student to serve in a position as an Incident Command System (ICS) Time Unit Leader. Students will learn the basic duties and responsibilities of the Time Unit, forms and methods for documenting personnel work time, and how to organize, establish then demobilize a Time Unit at an ICS incident. Pass/No Pass Only.

FSC 120 - C-368 Procurement Unit Leader **2 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 40 hours Lecture
This course prepares the student to serve in a position as an Incident Command System (ICS) Procurement Unit Leader. Topics covered will include basic duties and responsibilities of the Procurement Unit, development and use of an incident procurement plan, contracts and agreements with vendors, orders and invoicing and Unit demobilization. Pass/No Pass Only.

FSC 121 - Basic Purchasing **1 Unit(s)**
Transfer Status: NT 24 hours Lecture
This course introduces the student to policy, procedures and methods of purchasing goods and services on behalf of the State of California and CAL Fire. Emphasis will be placed on preparation and submission of documentation and records related to purchasing. Pass/No Pass Only.

FSC 122 - S-354 Facilities Unit Leader **2 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 40 hours Lecture
This course prepares students to perform the job of Facilities Unit Leader in an Incident Command System (ICS) organization. Topics covered in the course will include operational leadership, mobilization, arrival at incidents, risk management, safety and tactics, demobilization and post-incident responsibilities. Pass/No Pass Only.

FSC 123 - S-355 Ground Support Unit Leader **2 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 40 hours Lecture
This course prepares the student to perform the job of Ground Support Unit Leader in an Incident Command System (ICS) organization. Topics covered will include the purpose of the Ground Support Unit, resources, equipment inspections, operation of the Ground Support Unit and demobilization. Pass/No Pass Only.

FSC 124 - S-356 Supply Unit Leader **1.5 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 32 hours Lecture
This course will provide the student with the skills and knowledge necessary to perform the duties of the Supply Unit Leader within the Incident Command System (ICS). Subjects covered include organization of the supply function, relationships with other functions, operations of the supply function and demobilization. Pass/No Pass Only.

FSC 127 - S-359 Medical Unit Leader **1 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 24 hours Lecture
This course is intended to prepare the student to serve in a position as an Incident Command System (ICS) Medical Unit Leader. Topics covered include information gathering, organization of the Medical Unit, supervision of the Unit, response to medical emergencies, documentation and demobilization. Pass/No Pass Only.

FSC 128 - S-330 Task Force/Strike Team Leader **2 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 40 hours Lecture
This course prepares students to assume roles as an Incident Command System (ICS) Strike Team or Task Force Leader. It includes an overview of related tactics and strategy, and meets the S-330 training requirements of the National Wildfire Coordinating Group (NWCG), and the California Incident Command Certification System (CICCS). Pass/No Pass Only.

FSC 129 - S-339 Division/Group Supervisor **1 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public; check schedule online http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 24 hours Lecture
This course prepares students to perform the role of Incident Command System (ICS) Division/Group Supervisor (DIVS), and provides instruction in support of the specific tasks of the DIVS. Topics covered include Division/Group management, organizational interaction, division operations, all-hazard operations and tactical decision making. Pass/No Pass Only.

FSC 132 - Incident Management 3 **2 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 40 hours Lecture
This course is third in a series intended to prepare the student for roles from Initial Attack Incident Commander to Extended Attack Incident Commander. This course will expand on the concepts and principles introduced in Incident Management 2, and prepare the student for assuming higher levels of incident command responsibility. Pass/No Pass Only.

FSC 133 - S-390 Introduction to Wildland Fire Behavior Calculations **2 Unit(s)**
Prerequisite(s): S-290 Intermediate Wildland Fire Behavior (open to the public: http://onlinetraining.nwcg.gov/node/171)
Transfer Status: NT 40 hours Lecture
This course is designed to introduce the student to conducting fire behavior calculations by manual and electronic methods. Students will gain an understanding of the determinants of fire behavior through studying environmental inputs, as well as how to determine fire behavior outputs. Instruction will also be provided on documentation processes and fire behavior briefing components. Students should expect several hours of homework related to fire behavior calculations each night. Pass/No Pass Only.

FSC 134 - S-342 Documentation Unit Leader **1 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 17 hours Lecture
This course prepares the student to work as a Documentation Unit Leader in the Incident Command System (ICS). Emphasis will be placed upon the basic responsibilities of the position, establishing, organizing and maintaining incident files, production of a final documentation package and demobilization. Pass/No Pass Only.

FSC 135 - S-244/245 Field Observer/Display Processor **2 Unit(s)**
Prerequisite(s): S-290 Intermediate Wildland Fire Behavior (open to the public: http://onlinetraining.nwcg.gov/node/171)
Transfer Status: NT 36 hours Lecture / 4 hours Lab
This course prepares the Planning Section Field Observer/Display Processor in developing basic skills in this highly technical and critical fire service position. Topics include identifying and interpreting maps, making map calculations, using observation aids, weather observations, fuels, and making field observations. Pass/No Pass Only.

FSC 136 - S-346 Situation Unit Leader **1.5 Unit(s)**
Prerequisite(s): I-200 Basic Incident Command System (open to the public: http://training.fema.gov/is/courseoverview.aspx?code=IS-200.b)
Transfer Status: NT 28 hours Lecture / 12 hours Lab
This course prepares the student to serve in a position as an Incident Command System (ICS) Situation Unit Leader. Students will learn to activate, set-up, organize, manage and demobilize a situation unit. Students will also become familiar with typical Situation Unit work products such as maps, ICS-209 forms, basic reports, and the technology that is required to produce these products. Pass/No Pass Only.

FSC 137 - S-347/349 Demobilization/Resource Unit Leader **2 Unit(s)**
Prerequisite(s): I-300 Intermediate Incident Command System (open to the public: http://www.ehs.ucr.edu/training/online/ics/)
Transfer Status: NT 40 hours Lecture
This course prepares the student to work as a Demobilization/Resource Unit Leader within the Incident Command System (ICS). The duties and responsibilities of the position are addressed, and materials required to function in the position are also discussed. Pass/No Pass Only.

FSC 201E - Confined Space Rescue Operations **1.3 Unit(s)**
Transfer Status: NT 11 hours Lecture / 29 hours Lab
A study of the role of rescue personnel responding to a Confined Space incident. This course provides instruction in identifying confined spaces and permit-required confined spaces, the hazards associated with entering such spaces, target industries that possess these spaces and laws regulating entries/ rescues performed in confined spaces. Participants will be taught the mandatory aspects of confined space entries and rescues including monitoring, ventilation, lock-out/tag-out, retrieval and communication systems, respiratory protection, etc. The course is designed for those personnel who are likely to make routine or rescue entries into confined spaces. Meets CSFM certification requirements. Pass/No Pass Only.

FSC 203Z - Fire and Safety Training Orientation **1.1 Unit(s)**
Transfer Status: NT 8 hours Lecture / 32 hours Lab
This course will cover Basic Fire Suppression tactics and Rescue skills. Its focus will be on creating a diverse and non-threatening learning environment for the education of youth in safety, rescue and emergency activities. Pass/No Pass Only.

Geography (GEOG)

GEOG 2 - Physical Geography **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a spatial study of the Earth's dynamic physical systems and processes. Topics include: Earth-sun geometry, weather, climate, water, landforms, soil, and the biosphere. Emphasis is on the interrelationships among environmental and human systems and processes and their resulting patterns and distributions. Tools of geographic inquiry are also briefly covered; they may include: maps, remote sensing, Geographic Information Systems (GIS) and Global Positioning Systems (GPS). (C-ID GEOG 110).

GEOG 3 - Physical Geography Lab **1 Unit(s)**
Prerequisite(s): GEOG 2 (or concurrent enrollment)
Transfer Status: CSU/UC 51 hours Lab
This course is designed to provide supplemental exercises in topics covered in Physical Geography lecture. Lab experience will include map analysis and interpretation, weather prognostication, landform processes and evolution, tectonics, biogeography, and habitat analysis. (C-ID GEOG 111).

GEOG 4 - Cultural Geography **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a study of diverse human populations, their cultural origins, diffusion and contemporary spatial expressions. Topics include: demography, languages and religions, urbanization and landscape modification, political units and nationalism, and economic systems and development. (C-ID GEOG 120).

GEOG 8 - World Regional Geography **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
Survey of the world's culture regions and nations as interpreted by geographers, including physical, cultural, and economic features. Emphasis on spatial and historical influences on population growth, transportation networks, and natural environments. Identification and importance of the significant features of regions.
(C-ID GEOG 125).

GEOG 10 - Geography of California **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
A thematic approach to the state's issues, processes and topics relevant to geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical, and human landscapes that have evolved as a result of the human-environment interface. (C-ID GEOG 140).

GEOG 12 - The American West **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a topical survey of the American West from the Great Plains to the Pacific, emphasizing both historical and contemporary interpretations of settlement, resource management, economic development, and urbanization. Particular emphasis is placed on how various cultural groups with differing social, political, and religious values have each made a unique impact upon the western landscape.

GEOG 20 - Introduction to Geographic Information Systems **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. Explores how GIS solves spatial problems, such as those in natural resources, earth and life sciences, environmental planning, local government, business, transportation and other fields. (C-ID GEOG 155).

GEOG 21 - GIS Data Capture **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course covers design and implementation of geographic databases for Geographic Information Systems (GIS) data capture and management. Included are essential concepts and practices of relational database management systems, with specific application to GIS. Data is captured using Global Positioning Systems (GPS) and mobile GIS methods. GIS digitizing and editing are also covered.

GEOG 22 - Remote Sensing and Spatial Analysis **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course covers Geographic Information Systems (GIS) for investigating geographic patterns, relationships and connections. Spatial analysis methods are employed for both raster and vector data. Emphasis is on problem-solving and decision making using GIS. Models and scripts for automating GIS processes are also undertaken. In addition, remote sensing fundamentals as they apply to mapping the Earth's surface will be covered. Image enhancement, classification and quantitative techniques are explored with attention to integration with GIS datasets. Application of remote sensing for land cover change, vegetation classification, and environmental quality are explored.

GEOG 95 - Special Studies-GEOG **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

GEOG 100 - Review for ESRI Certification **1 Unit(s)**
Transfer Status: NT 51 hours Lab
This course is a comprehensive review of the Geographical Information Skills (GIS) and knowledge measured in the ArcGIS Desktop Associate certification exam. Using ESRI's study guide will provide a thorough appraisal of the information needed to be a successful examination candidate. This will include overviews of essential ArcGIS for Desktop tools and workflows to strengthen your skills. The Certification Study Guide will provide step-by-step exercises to reinforce what you've learned, followed by actual exam questions to test your knowledge. Successful completion of this course does not guarantee that you will pass the ESRI ArcGIS Desktop Associate Certification exam. Students should have 2 years of experience using GIS prior to taking the exam.

Geology (GEOL)

GEOL 32 - Physical Geology with Lab **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
Physical Geology with Lab will introduce students to the internal and external processes that are at work changing the earth today. Within the context of modern plate tectonics theory, students will explore the origins of rocks and minerals and dynamic earth processes such as volcanism, seismicity and mountain building that are driven by the release of Earth's internal heat. It also examines how wind, running water, and glaciers move in response to gravity and energy from the sun and the sculpting of Earth's surface by erosion. These concepts as well as the interpretation of topographic and geologic maps will be reinforced with an integrated laboratory program. (C-ID GEOL 101).

GEOL 34 - Historical Geology with Lab **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
Historical geology with lab introduces students to Earth's geologic history and the history of life on Earth. Drawing on concepts from plate tectonics theory, evolution, geologic dating methods and stratigraphy, students explore the planet's origin and the processes that have repeatedly re-shaped the global environment during the past 4.6 billion years. It also covers the history of life on this planet and investigates the complementary roles played by natural selection and environmental change in shaping both modern and ancient ecosystems. These concepts as well as fossil identification, study of sedimentary rocks, and interpretation of geologic maps will be reinforced with an integrated laboratory program. (C-ID GEOL 111).

GEOL 95 - Special Studies-GEOL **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

German (GERM)

GERM 1 - First Semester German **4 Unit(s)**
Transfer Status: CSU/UC 68 hours Lecture
This course is a study of beginning German emphasizing grammar, reading, writing, speaking, and listening comprehension. It also introduces the student to various aspects of German culture. Students who have completed at least one, but fewer than two years of high school German (or equivalent)with a letter grade of "A" or "B"" within one year of the present date, should register for Second Semester German.

GERM 2 - Second Semester German **4 Unit(s)**
Prerequisite(s): GERM 1
Transfer Status: CSU/UC 68 hours Lecture
This course is the second half of beginning German, which further develops language skills: reading, writing, listening comprehension and speaking. In addition, this course continues to introduce students to aspects of Germanic culture. Students who have completed at least two, but fewer than three years of high school German (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should register for Third Semester German.

GERM 3 - Third Semester German **4 Unit(s)**
Prerequisite(s): GERM 2
Transfer Status: CSU/UC 68 hours Lecture
This course is the first half of intermediate German which further develops language skills: reading, writing, listening comprehension and speaking. Through written analysis and discussion of both modern and classical German texts, students further increase their fluency and grammatical accuracy in the four skill areas. Students who have completed at least three, but fewer than four years of high school German (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should register for Fourth Semester German.

GERM 4 - Fourth Semester German **4 Unit(s)**
Prerequisite(s): GERM 3
Transfer Status: CSU/UC 68 hours Lecture
This course is the second half of intermediate German, which further develops language skills: reading, writing, listening comprehension and speaking. Through continued study of German language and culture students further increase their fluency and grammatical accuracy in the four skill areas in expanded written analysis and discussion of both modern and classical German texts.

Healthy Aging & Living (HAL)

HAL 300 - Cooking for Wellness **0 Unit(s)**
Transfer Status: NT 85 hours Lab
The purpose of this course is to teach older adults how to cook healthier meals. Students will try new recipes, new cooking styles, and share traditional family recipes. Topics will include healthy portions, special diets, and food substitutes. Preparation skills will be reinforced in the following areas: cutting, stirring, peeling, chopping, baking, and tasting. Unlimited repeats. Ungraded. Open Entry/Open Exit.

HAL 301 - Finding Your Inner Artist **0 Unit(s)**
Transfer Status: NT 85 hours Lab
This course enriches the lives of older adults through creative expression, arts and crafts, and fine arts including painting, music, and drawing. Topics include musical self-expression, life and art, drawing in the abstract, renowned artist biographies, notable museums, and value of the arts. Unlimited repeats. Ungraded. Open Entry/Open Exit.

HAL 302 - Fun and Fitness for Healthy Aging **0 Unit(s)**
Transfer Status: NT 85 hours Lab
Physical activity is the focus of this course and how it relates to healthy aging for older adults. Students will participate in stretching, chair aerobics, strengthening exercises, balancing and fall prevention activities. Application of yoga and Chi Quong principles will also be addressed to maintain health while aging. Unlimited repeats. Ungraded. Open Entry/Open Exit.

HAL 303 - Vocal Aerobics: Music Exercises for Fitness **0 Unit(s)**
Transfer Status: NT 85 hours Lab
The focus of this course is to enrich the lives of older adults through vocalization and communication techniques, singing old familiar songs, deep-breathing exercises, and movement to music. Unlimited repeats. Ungraded. Open Entry/Open Exit.

HAL 304 - Staying Mentally Sharp **0 Unit(s)**
Transfer Status: NT 85 hours Lab
The focus of this course is to use techniques to curtail memory loss and preserve mental fitness. Topics include: exercise and the brain, being a better listener, recognition memory, remembering through music, visual connections, memory aids, puzzles, games, and reminiscing to strengthen memory. The students will learn to recognize symptoms of health and age-related memory loss. Strategies will be presented for coping and compensating for memory loss. A personal plan will be developed for improving and preserving mental fitness. Unlimited repeats. Ungraded. Open Entry/Open Exit.

HAL 305 - Telling Your Story **0 Unit(s)**
Transfer Status: NT 85 hours Lab
Older adults will have the opportunity to reflect on their past and consider how past experiences have influenced their lives. Thematic and chronological approaches will be utilized for reminiscing and recall. Opportunities to be creative, share life experiences, and learn from others in a supportive environment are provided. Focus is placed upon affirmation of each student's life. Unlimited repeats. Ungraded. Open Entry/Open Exit.

HAL 306 - Technology Basics for Seniors **0 Unit(s)**
Transfer Status: NT 85 hours Lab
Older adults will learn basic skills of personal technology devices such as computers, laptops, Ipads, Notebooks, tablets, and smart phones. Students will learn how to use online services, applications, basic photography, and programs to help connect with family and friends. Unlimited repeats. Ungraded. Open Entry/Open Exit.

Health Information Management (HIM)

HIM 56 - Introduction to Health Information Management **2 Unit(s)**
Transfer Status: CSU 34 hours Lecture
This course is an introduction to the growing, dynamic profession of Health Information Management (HIM) and provides a foundation for those students pursuing the HIM field including medical office administration and medical coding. Foundational topics include the field of HIM; the purpose, evolution, and structure of US healthcare delivery systems; the purpose, organization, and storage of medical health records; the role of information technology in healthcare; the functions and organization of Electronic Health Records (EHR); the legal aspects of health information; and the standardized usage of classification systems to document diagnoses and procedures to support reimbursement methods, data management, and research in healthcare.

HIM 58 - Healthcare Law and Ethics **2 Unit(s)**
Transfer Status: CSU 34 hours Lecture
This course introduces students to legal and ethical issues they will encounter while working in the field of Health Information Management (HIM). Topics include an overview of legal issues relating to Health Insurance Portability and Accountability Act (HIPAA), healthcare delivery, ethics, judicial processes, and standards of care. This course also includes bioethical and moral issues related to HIM and how they affect the day-to-day operations of medical offices.

HIM 62 - Introduction to Medical Coding **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to the medical coding classification systems used in the United States healthcare industry: International Classification of Diseases 10 Clinical Modification (ICD-10-CM) and Current Procedural Terminology (CPT). Through analysis of case histories and surgical reports, students will learn to distinguish between primary and secondary diagnoses codes, to assign the proper procedural codes, and to explain the importance of accurate medical documentation and clinical records.

HIM 63 - Reimbursement **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to the reimbursement methodologies used in healthcare in the United States. The focus of the course will be on the accurate preparation and maintenance of clinical records and medical documentation. Students will analyze insurance plans spanning government and private sectors and learn to properly complete the Centers for Medicare and Medicaid Services claim form (CMS 1500) used in medical outpatient facilities. Topics include working with specific insurance companies, filing error-free claims, resubmitting denied claims, utilizing effective collection strategies, and handling the appeal process.

HIM 64 - Advanced Medical Coding **3 Unit(s)**
Prerequisite(s): HIM 62
Transfer Status: CSU 42.5 hours Lecture / 25.5 hours Lab
This is an advanced course in medical coding for both outpatient and inpatient procedures and services. The course will include a brief review of International Classification of Diseases 10 Clinical Modification (ICD-10-CM) and Current Procedural Terminology (CPT). By following steps in the coding selection and sequencing process, students will assign appropriate procedure and service codes. Students will use the International Classification of Diseases 10 Procedure Coding System (ICD-10-PCS) and CPT (including Evaluation & Management Code (E&M), Audits, Modifiers, and Healthcare Common Procedure Coding System (HCPCS)) classification systems in this process.

HIM 76 - Electronic Health Records **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to Electronic Health Records (EHRs) and their place in healthcare. The curriculum reinforces the relationship between all of the components needed for a complete patient medical record including the clinical, administrative, and reimbursement components. Topics in this class are based on the national curriculum competencies developed by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

History (HIST)

HIST 3 - World History to 1500 **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of the development of world civilizations from prehistoric humans to 1500. Major themes include: broad patterns of change; dynamics of race, class, gender and ethnicity; reciprocal influence between the physical environment and human societies; and ways in which human groups have interacted with one another. In addition, the course examines distinctive forms of political, social, and economic organization, and significant scientific achievements, cultural developments, and belief systems. The course also provides an introduction to historical method. (C-ID HIST 150).

HIST 5 - World History since 1500 **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of the development of world civilizations since 1500. Major themes include: broad patterns of change; dynamics of race, class, gender and ethnicity; reciprocal influence between the physical environment and human societies; and ways in which human groups have interacted with one another. In addition, the course examines distinctive forms of political, social, and economic organization, and significant scientific achievements, cultural developments, and belief systems. The course also provides an introduction to historical method. (C-ID HIST 160).

HIST 6 - Modern World History **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course surveys the origins and development of global trends from 1750 to the present. Themes include the global impact of industrialization, imperialism, nationalism and totalitarianism, political revolutions, conflict, and global economic and technological integration.

HIST 8 - United States History to 1877 **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
A survey of the history of the United States, from pre-colonial North America to the end of Reconstruction, that addresses important political, economic, social, and cultural developments. Themes may include but are not limited to aspects of class, race, and gender; systems of labor; intellectual, technological, social, and cultural history; the role of geography; and foreign relations. The course also introduces students to the historical reasoning skills necessary to form their own understanding of the past, and of contemporary society. (C-ID HIST 130).

HIST 10 - United States History-1877 to Present **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
A survey of the history of the United States, from the end of Reconstruction to the Present, that addresses important political, economic, social, and cultural developments. Themes may include but are not limited to aspects of class, race, and gender; systems of labor; intellectual, technological, social, and cultural history; the role of geography; and foreign relations. The course also introduces students to the historical reasoning skills necessary to form their own understanding of the past, and of contemporary society. (C-ID HIST 140).

HIST 18 - Multicultural History of the United States **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
A survey of the history of the United States from pre-colonial times to the present with particular emphasis on the multicultural heritage shared by all citizens. Contributions of African, Asian, European, Latino, and native American will be examined. Historical experiences of all groups will be compared and studies in relation to the general history of the United States, the dynamics of majority-minority interaction, immigration policy, and constitutional law.

HIST 20 - Political History of the Middle East **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
An introduction to the cultural and historical background of the Middle East. An inquiry into government, family, social classes, religion, politics, and regional conflict in the Middle East both past and present.

HIST 26 - Men and Women in American History **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of the experiences of men and women in the American past from the pre-colonial era to the present. The course examines the ways that ideas about masculinity and femininity have shaped men's and women's participation in major political, economic, social, and cultural events and developments, and why and how ideas of manhood and womanhood change.

HIST 30 - History of the African American **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course examines the conditions of African Americans in the United States as shaped and influenced by the African tradition, and provides a broad and basic understanding of African Americans in U.S. history. African American contributions to American culture, economy, and politics will be assessed.

HIST 95 - Special Studies-HIST **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Health (HLTH)

HLTH 2 - Health and Wellness **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course focuses on the exploration of major health issues and behaviors in the various dimensions of health. Emphasis is placed on individual responsibility for personal health and the promotion of informed, positive health behaviors. Topics include nutrition, exercise, weight control, mental health, stress management, violence, substance abuse, reproductive health, disease prevention, aging, healthcare, and environmental hazards and safety. (C-ID PHS 100) Graded Only.

HLTH 10 - Leisure for Healthy Living **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines the role of leisure as a key component of mental, emotional, and physical well-being. Students will learn constructive uses of leisure time while developing personal and healthy values. Emphasis will include personal growth, social impacts, leisure planning, stress management, and health enhancement.

HLTH 20 - Current Health Issues in Athletics **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
This course covers current health issues faced by athletes. Emphasis is on the psychological, social, and developmental effects of a variety of health issues as they relate to the world of sports. Topics will include eating disorders, drug, tobacco, and alcohol use as well as illnesses that can affect an athlete's performance. Students will learn about outside influences and decision making regarding health issues in athletics specific to age, gender, sexuality, and sport demands.

HLTH 99 - Work Experience-HLTH **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Honors (HON)

HON 11 - Honors Capstone **1 Unit(s)**
Prerequisite(s): Admission to Honors Program and completion of 15 Honors units or completion of 12 Honors units and concurrent enrollment in 3 Honors units in addition to Honors 11 and ENGL 2 or ENGL 3
Transfer Status: CSU 17 hours Lecture
This course provides Honors students who have already completed a minimum of 15 units in Honors classes (or have completed 12 units in Honors classes and are concurrently enrolled in 3 Honors units in addition to Honors Capstone), the opportunity to carry out a supervised individual research or creative project in Honors to synthesize, apply, and further develop the skills and knowledge they have acquired in the Honors Program. Students interested in registering for Honors 11 must get pre-approval from an Honors instructor prior to the semester they intend to register for. Graded Only.

HON 95 - Special Studies-HON **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Humanities (HUM)

HUM 17 - Comparative European Studies **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a study of the development of European identities, belief systems, philosophy, art, architecture, music, science, and systems of government. It examines Western Europe after the fall of Rome, focusing on cultural contributions of the Germanic Kingdoms, feudalism, the Catholic Church, the High Middle Ages and the crisis of the 14th century, the early Renaissance, and the Reformation. The course provides a comparative evaluation of how European traditions and perspectives came to influence the world of ideas. Graded Only.

HUM 22 - Greco-Roman Cultures **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to the classical civilizations of Greece and Rome, through the study of original sources of the ancient world in history, art, philosophy, poetry, music, and drama. The course emphasizes the influence of Greek and Roman art, law, philosophy, politics, literature, and science on the modern world. Specific works of key thinkers who contributed to the shaping of classical civilization will be compared in order to trace the evolution of ideas.

HUM 95 - Special Studies-HUM **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Heating, Ventilation, and Air Conditioning (HVAC)

HVAC 11 - Introduction to HVACR **4 Unit(s)**
Co-requisite(s): ITEC 55, HVAC 12, HVAC 13
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course is designed to teach the introduction to Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) as an industrial trade. Emphasis will be placed on developing basic safety skills, trade math, and the terminology, history, and future of the HVACR industry. These areas of instruction will be applied in several hands-on performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) Heating, Ventilation, and Air Conditioning curriculum qualification.

HVAC 12 - Basic HVACR Systems **4 Unit(s)**
Co-requisite(s): ITEC 55, HVAC 11, HVAC 13
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course is designed to teach the functions of Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems and where they are used in the industry. Emphasis will be placed on developing safety skills, heating and cooling system types, equipment categories, air distribution, components of a system, and the different types of tubing used in the industry. These areas of instruction will be applied in several hands on performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) Heating, Ventilation, and Air Conditioning curriculum qualification.

HVAC 13 - Trade Electricity **4 Unit(s)**
Co-requisite(s): ITEC 55, HVAC 11, HVAC 12
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course is designed to provide pre-employment training in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems for industrial trades. Emphasis will be placed on developing basic safety skills, fundamentals of electricity, electrical theory, knowledge of electrical measuring instruments used in industry, and identification of electrical components. These areas of instruction will be applied in several hands on performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) core curriculum qualification.

HVAC 21 - Introduction to the Refrigerant System **4 Unit(s)**
Prerequisite(s): ITEC 55, HVAC 12, HVAC 13
Co-requisite(s): HVAC 22, HVAC 23
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course is designed to provide pre-employment training in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems for industrial trades. Emphasis will be placed on developing safety skills, metering and gauge identification, lubrication oils used, replacement of refrigerant circuits, knowledge of heat pump systems, and inspection and maintenance of procedures. These areas of instruction will be applied in several hands on performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) core curriculum qualification.

HVAC 22 - Intermediate HVACR Components **4 Unit(s)**
Prerequisite(s): ITEC 55, HVAC 11, HVAC 12, HVAC 13
Co-requisite(s): HVAC 21, HVAC 23
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course is designed to provide pre-employment training in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems for industrial trades. Emphasis will be placed on developing safety skills, tool identification, basic rigging and material handling skills, with soft skills training. These areas of instruction will be applied in several hands on performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) core curriculum qualification.

HVAC 23 - Intermediate HVACR Concepts **4 Unit(s)**
Prerequisite(s): ITEC 55, HVAC 11, HVAC 12, HVAC 13
Co-requisite(s): HVAC 21, HVAC 22
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course is designed to provide pre-employment training in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems for industrial trades. Emphasis will be placed on developing safety skills, commercial air distribution, factors to be controlled when dealing with indoor air quality, types of hot-water heating systems, and devices used in hydronic systems. These areas of instruction will be applied in several hands on performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) core curriculum qualification.

HVAC 31 - Advanced HVACR Components **4 Unit(s)**
Prerequisite(s): HVAC 21, HVAC 22, HVAC 23
Co-requisite(s): HVAC 32, HVAC 33
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course is designed to provide pre-employment training in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems for industrial trades. Emphasis will be placed on developing safety skills, identifying fasteners, understanding of common control devices, troubleshooting oil-fired heating systems and various system accessories. These areas of instruction will be applied in several hands on performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) core curriculum qualification.

HVAC 32 - Advanced HVACR Service **5 Unit(s)**
Prerequisite(s): HVAC 21, HVAC 22, HVAC 23
Co-requisite(s): HVAC 31, HVAC 33
Transfer Status: CSU 51 hours Lecture / 102 hours Lab
This course is designed to provide pre-employment training in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems for industrial trades. Emphasis will be placed on developing safety skills, troubleshooting skills on electrical, refrigerant, heat pumps, airflow diagnostics, commercial refrigeration systems, and customer relations. These areas of instruction will be applied in several hands on performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) core curriculum qualification.

HVAC 33 - Internship With Local Trade Company **7 Unit(s)**
Prerequisite(s): HVAC 21, HVAC 22, HVAC 23
Co-requisite(s): HVAC 31, HVAC 32
Transfer Status: CSU 51 hours Lecture / 204 hours Lab
This course is designed to teach students skills by simulations and field internship experiences required to meet industry standards in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems and North American Technician Excellence (NATE) certification. Emphasis will be placed on developing safety skills, troubleshooting skills, application of electrical diagnostics and customer relation practices. These areas of instruction will be applied in several hands on performance lecture and lab exercises. This course is part of the National Center for Construction Education and Research (NCCER) core curriculum qualification.

HVAC 41 - Advanced HVACR Systems **4 Unit(s)**
Prerequisite(s): HVAC 31, HVAC 32, HVAC 33
Co-requisite(s): HVAC 42, HVAC 43
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course is designed to provide pre-employment training in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems for industrial trades. Emphasis will be placed on developing safety skills, water related concepts, indoor air quality, energy management systems, air balancing, and proper startup and shutdown procedures. These areas of instruction will be applied in several hands on performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) core curriculum qualification.

HVAC 42 - Advanced HVACR Design **5 Unit(s)**
Prerequisite(s): HVAC 31, HVAC 32, HVAC 33
Co-requisite(s): HVAC 41, HVAC 43
Transfer Status: CSU 51 hours Lecture / 102 hours Lab
This course is designed to provide pre-employment training in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems for industrial trades. Emphasis will be placed on developing safety skills, reading construction drawings, system design, commercial refrigeration, alternative HVAC systems, and leadership skills for supervisors. These areas of instruction will be applied in several hands on performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) core curriculum qualification.

HVAC 43 - Advanced Internship With Local Trade Company **8 Unit(s)**
Prerequisite(s): HVAC 31, HVAC 32, HVAC 33
Co-requisite(s): HVAC 41, HVAC 42
Transfer Status: CSU 68 hours Lecture / 204 hours Lab
This course is designed to further develop and polish the skills required to succeed in the Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems industry. The student will develop personal and general safety skills, enhance the communication skills required to begin diagnosis of equipment and system operations, perform system maintenance, and ultimately complete repairs ranging from a simple adjustment, to a compressor replacement. Experiences in this course are intended to prepare students to pass the North American Technician Excellence (NATE) certification and the Environmental Protection Agencies Refrigerant Certification Examination. Successful completion of both exams is required to pursue a career in the HVAC field. This is part of the National Center For Construction Education and Research (NCCER) Heating, Ventilation, and Air Conditioning curriculum qualification.

HVAC 97 - Special Problems-HVAC **1 - 3 Unit(s)**
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

HVAC 99 - Work Experience-HVAC **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Interdisciplinary Studies (IDST)

IDST 12 - Strategies for Success in Online Learning **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
This course prepares students for success in online learning. It covers the techniques of identifying the requirements for each unique online course, best practices for successfully completing the course, and the skills needed in using such online tools as discussion boards, email, blogs, and wikis. Students will assess their own readiness to succeed online so they can focus on developing the particular skills needed. Students must have access to a computer connected to the Internet. Pass/No Pass Only.

IDST 90 - Special Topics **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
This course is a guided exploration of social and/or cultural activities and events that is designed to expand the socio-cultural perspective of students. Students will prepare for, attend, and present reports on a minimum of eight instructor-approved events, each of which will require an average of two hours. Some activities might require an entrance and/or participation fee. Pass/No Pass Only.

IDST 94 - Introduction to Service Learning **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
Introduction to Service Learning is designed by individual instructors for students who have a strong interest in linking academic learning with community service. It is based on a collaborative effort between the student, a faculty member, and a community based organization, school, business entity or campus setting to provide real-world experience in a field of interest while meeting the needs of the community. This course may also provide a service-learning component for a student enrolled in any approved class.

Italian (ITAL)

ITAL 1 - First Semester Italian **4 Unit(s)**
Transfer Status: CSU/UC 68 hours Lecture
This course is a study of beginning Italian emphasizing grammar, reading, writing and speaking. It also introduces the student to various aspects of Italian culture. Students who have completed at least one, but fewer than two years of high school Italian (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should register for Second Semester Italian.

ITAL 2 - Second Semester Italian **4 Unit(s)**
Prerequisite(s): ITAL 1
Transfer Status: CSU/UC 68 hours Lecture
This course is the second half of beginning Italian, which further develops the skills of understanding, speaking, reading and writing Italian. It continues to introduce students to various aspects of Italian culture. Students who have completed at least two, but fewer than three years of high school Italian (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should consult the appropriate language instructor before enrolling.

ITAL 95 - Special Studies-ITAL **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

ITAL 100 - Beginning Conversational Italian **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course emphasizes the development of basic understanding and speaking skills in Italian. Minimal emphasis is placed on formal grammar. Multimedia cultural presentations are offered throughout the course. This course is intended for those who wish to develop "survival" Italian in everyday basic situations.

ITAL 101 - Intermediate Conversational Italian **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course emphasizes the development of basic/intermediate understanding and speaking skills in Italian. Minimal emphasis is placed on formal grammar. Multimedia cultural presentations are offered throughout the course. This course is intended for those who wish to continue development of "survival" Italian in everyday situations.

Industrial Technology (ITEC)

ITEC 55 - Introduction to Industrial Trades **3 Unit(s)**
Transfer Status: CSU 25.5 hours Lecture / 76.5 hours Lab
This course is designed to provide pre-employment training for industrial trades. Emphasis will be placed on developing basic safety skills, tool identification, basic rigging and material handling skills, with soft skills training. These areas of instruction will be reinforced by hands-on application in several performance lab exercises. This course is part of the National Center For Construction Education and Research (NCCER) core curriculum qualification.

Journalism (JOUR)

JOUR 2 - Introduction to Reporting and Newswriting **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
An introduction to gathering, synthesizing/organizing and writing news in journalistic style across multiple platforms. Includes role of the journalist and related legal and ethical issues. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings and other events, writing under deadline and use of AP Style. (C-ID JOUR 110).

JOUR 10 - Beginning Newspaper Production **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
Student media practicum that includes a lab that regularly produces a news or feature non-fiction product with a journalism emphasis by and for students and distributed to a campus or community audience. Must include weekly news assignments. May include a variety of student media across multiple platforms, including print, broadcast, and online. Includes practical experience in design/layout, visual, online, multimedia journalism and emerging technologies. Must be student produced with student leadership. (C-ID JOUR 130).

JOUR 12 - Intermediate Newspaper Production **3 Unit(s)**
Prerequisite(s): JOUR 10
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course requires higher skill level and/or leadership/management involvement than JOUR 10. Intermediate student media practicum that includes a lab that regularly produces a news or feature non-fiction product with a journalism emphasis by and for students and distributed to a campus or community audience. Must include weekly news assignments. May include a variety of student media across multiple platforms, including print, broadcast, and online. Includes practical experience in design/layout, visual, online, multimedia journalism, emerging technologies and leadership/management. Must be student produced with student leadership. (C-ID JOUR 131).

JOUR 95 - Special Studies-JOUR **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

JOUR 99 - Work Experience-JOUR **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Japanese (JPN)

JPN 1 - First Semester Japanese **4 Unit(s)**
Transfer Status: CSU/UC 68 hours Lecture
This course is a study of beginning Japanese emphasizing reading, writing, speaking, and listening comprehension. It also introduces the student to various aspects of Japanese culture. Students who have completed at least one, but fewer than two years of high school Japanese (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should register for Second Semester Japanese.

JPN 2 - Second Semester Japanese **4 Unit(s)**
Prerequisite(s): JPN 1
Transfer Status: CSU/UC 68 hours Lecture
This course is the second half of beginning Japanese, which further develops language skills: reading, writing, listening comprehension and speaking. In addition, this course introduces the student to various aspects of the Japanese culture. Students who have completed at least two, but fewer than three years of high school Japanese (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should register for Third Semester Japanese.

JPN 3 - Third Semester Japanese **4 Unit(s)**
Prerequisite(s): JPN 2
Transfer Status: CSU/UC 68 hours Lecture
This course is the first half of intermediate Japanese, which further develops language skills: reading, writing, listening comprehension and speaking. Through written analysis and discussion of both modern and classical Japanese texts, students further increase their fluency and grammatical accuracy in the four skill areas. Students who have completed at least three, but fewer than four years of high school Japanese (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should register for Fourth Semester Japanese.

JPN 4 - Fourth Semester Japanese **4 Unit(s)**
Prerequisite(s): JPN 3
Transfer Status: CSU/UC 68 hours Lecture
This course is the second half of intermediate Japanese, which further develops language skills: reading, writing, listening comprehension and speaking. Through continued study of Japanese language and culture students further increase their fluency and grammatical accuracy in the four skill areas in expanded written analysis and discussion of both modern and classical Japanese texts.

JPN 95 - Special Studies-JPN **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Kinesiology (KIN)

Course Families
Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or 'W') within each family group.

Adaptive : KIN 94
Aerobics : KIN 33, 34, 35, 36
Combatives & Martial Arts : KIN 73, 74, 75, 76, 77, 78
Dance : KIN 38, 39, 40, 44, 93
General Fitness : KIN 48, 49, 50, 51, 52, 53
Individual Sports : KIN 57, 58, 60, 61, 62, 63
Interval Training : KIN 27, 28, 29, 31
Mind-Body Wellness : KIN 41, 42, 43, 45, 46, 47
Resistance Training : KIN 23, 24, 25
Team Sports : KIN 64, 65, 66, 67, 68, 69, 70, 71

KIN 1 - Introduction to Kinesiology **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. (C-ID KIN 100).

KIN 2 - Introduction to Coaching **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course examines and discusses academic, professional, and standard requirements of the coaching profession. Students will be expected to focus upon and understand the discipline and breadth of the coaching profession. Topics include philosophies, goals, objectives, ethical standards, desired qualities, and current professional issues.

KIN 3 - Elementary School Physical Education **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed for future elementary school teachers. Topics include assessment and maintenance of physical fitness to improve health and performance, the development of movement skill combinations, positive social interaction and group dynamics for K-6 children.

KIN 5 - Sports Officiating **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course will introduce the student to the structure and application of sports officiating. Emphasis will be placed on specific rules governing different sports. Topics will include enforcement, etiquette, and ethics in officiating athletic contests. Students will apply topics learned in lecture to officiate simulated athletic contests.

KIN 6 - Sports Fitness and Nutrition **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines essential principles of a proper exercise and diet program needed to maintain healthy sports fitness and nutrition levels. Students will study athletic performance, exercise recovery, food quality, general health, motivation, energy transfer, and the relationship between nutrition and performance.

KIN 7 - Introduction to Athletic Training and Sports Medicine **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course introduces students to the prevention, evaluation, and treatment of athletic injuries. Students will learn rehabilitation and management skills, emergency procedures, sports psychology, musculoskeletal anatomy, therapeutic modalities, and various taping/wrapping techniques. The course is designed to expose students to sports medicine career fields such as strength and conditioning, physical therapy, orthopedic medicine, and athletic training.

KIN 8 - Athletic Training and Sports Medicine Practicum **1 Unit(s)**
Transfer Status: CSU 51 hours Lab
This course offers students practical, hands-on experience within the field of sports medicine and athletic training. Instruction will focus on the prevention and immediate care of athletic injuries. Students will learn rehabilitation and management skills, emergency procedures, nutrition, sports psychology, musculo-skeletal anatomy, therapeutic modalities, and various taping/wrapping techniques. Students will experience various sports medicine career fields such as strength and conditioning, physical therapy, orthopedic medicine, and athletic training. This course may be repeated three times to meet the admission requirements at an accredited Athletic Training program.

KIN 9 - Introduction to Personal Fitness Training **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines the academic and professional requirements for personal fitness training. Students will become familiar with anatomy and physiology, fitness evaluations, weight room program design, and nutrition. Philosophies, goals, objectives, and occupational ethics will be discussed and examined and practical skills will be demonstrated.

KIN 10 - Personal Fitness Training Practicum **1 Unit(s)**
Transfer Status: CSU 51 hours Lab
This course is a personal fitness training practicum, including anatomy and physiology, fitness evaluations, weight room and program design, and nutrition. Students will be assigned to shadow professional fitness trainers and strength coaches assisting in daily training regimens.

KIN 11 - First Aid and CPR **3 Unit(s)**
Transfer Status: CSU 42.5 hours Lecture / 25.5 hours Lab
This course involves the theory and detailed demonstration of the first aid care of the injured. The student will learn to assess a victim's condition and incorporate proper treatment. Standard first aid, CPR, and AED certification(s) will be granted upon successful completion of requirements. (C-ID KIN 101).

KIN 12A - Theory of Baseball I **2 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the basic techniques and strategies of baseball as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of baseball, team play, biomechanics, and film study at a basic level.

KIN 12B - Theory of Baseball II **2 Unit(s)**
Prerequisite(s): KIN 12A
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the intermediate techniques and strategies of baseball as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of baseball, team play, biomechanics, and film study at an intermediate level.

KIN 13A - Theory of Basketball I **2 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the basic techniques and strategies of basketball as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of basketball, team play, biomechanics, and film study at a basic level.

KIN 13B - Theory of Basketball II **2 Unit(s)**
Prerequisite(s): KIN 13A
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the intermediate techniques and strategies of basketball as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of basketball, team play, biomechanics, and film study at an intermediate level.

KIN 14A - Theory of Cross Country I **2 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the basic techniques and strategies of cross country as the sport has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of cross country, team play, biomechanics, and film study at a basic level.

KIN 14B - Theory of Cross Country II **2 Unit(s)**
Prerequisite(s): KIN 14A
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the intermediate techniques and strategies of cross country as the sport has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of cross country, team play, biomechanics, and film study at an intermediate level.

KIN 15A - Theory of Football I **2 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the basic techniques and strategies of football as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of football, team play, biomechanics, and film study at a basic level.

KIN 15B - Theory of Football II **2 Unit(s)**
Prerequisite(s): KIN 15A
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the intermediate techniques and strategies of football as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of football, team play, biomechanics, and film study at an intermediate level.

KIN 16A - Theory of Golf I **2 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the basic techniques and strategies of golf as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of golf, team play, biomechanics, and film study at a basic level.

KIN 16B - Theory of Golf II **2 Unit(s)**
Prerequisite(s): KIN 16A
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the intermediate techniques and strategies of golf as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of golf, team play, biomechanics, and film study at an intermediate level.

KIN 17A - Theory of Soccer I **2 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the basic techniques and strategies of soccer as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of soccer, team play, biomechanics, and film study at a basic level.

KIN 17B - Theory of Soccer II **2 Unit(s)**
Prerequisite(s): KIN 17A
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the intermediate techniques and strategies of soccer as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of soccer, team play, biomechanics, and film study at an intermediate level.

KIN 18A - Theory of Softball I **2 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the basic techniques and strategies of softball as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of softball, team play, biomechanics, and film study at a basic level.

KIN 18B - Theory of Softball II **2 Unit(s)**
Prerequisite(s): KIN 18A
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the intermediate techniques and strategies of softball as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of softball, team play, biomechanics, and film study at an intermediate level.

KIN 19A - Theory of Track and Field I **2 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the basic techniques and strategies of track and field as the sport has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of track and field, team play, biomechanics, and film study at a basic level.

KIN 19B - Theory of Track and Field II **2 Unit(s)**
Prerequisite(s): KIN 19A
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the intermediate techniques and strategies of track and field as the sport has developed and is played at secondary, community college, and professional levels. Emphasis will be placed on the mental aspect of track and field, team play, biomechanics, and film study at an intermediate level.

KIN 20A - Theory of Volleyball I **2 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the basic techniques and strategies of volleyball as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of volleyball, team play, biomechanics, and film study at a basic level.

KIN 20B - Theory of Volleyball II **2 Unit(s)**
Prerequisite(s): KIN 20A
Transfer Status: CSU/UC 34 hours Lecture
This course provides instruction in the intermediate techniques and strategies of volleyball as the game has developed and is played at secondary, intercollegiate, and professional levels. Emphasis will be placed on the mental aspect of volleyball, team play, biomechanics, and film study at an intermediate level.

KIN 23 - Weight Training I **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental techniques of weight training. Students will engage in individualized exercise programs with emphasis placed on the development of muscle strength, muscle endurance and flexibility. Instruction will include identification and proper technique for lifts specific to muscle groups to ensure safe fitness training.

KIN 24 - Weight Training II **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course builds upon the foundation of basic weight training by examining different styles and muscle specificity to individualized programs. Components of fitness will be emphasized including muscular strength, muscular endurance, flexibility, and body composition. Students will learn weight training guidelines for general fitness, sport performance, and bodybuilding.

KIN 25 - Olympic Weightlifting **1.5 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of competitive Olympic Weightlifting. Proper technique and timing will be emphasized for two competitive lifts/events, the Clean and Jerk and the Snatch. Integrating the Olympic Lifts and their variations into fitness and sport specific training protocols will be a primary focus of the course.

KIN 27 - Core Crossfit Training **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the proper exercise techniques and principles to improve core strength, posture, flexibility, speed, muscular strength, and muscular endurance. This course will include a variety of exercises designed to strengthen the core muscle groups. The main tools used in this course will include stability balls, kettlebells, dumbbells, jump ropes, resistance bands, and body weight.

KIN 28 - Plyometric Training **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of plyometric training. Students will learn to distribute power to increase speed, flexibility and agility. Additional instruction will be given on explosive ways to change direction and speed. This course will help guide students to build basic sport specific plyometric training drills and program.

KIN 29 - Body Sculpting **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of body sculpting. Emphasis will be on muscle toning, strengthening and endurance by means of resistance bands, weights, low impact step and stability balls.

KIN 31 - Quickfits **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course introduces students to effective body shaping strategies that can be completed in short intervals. These exercises are designed for individuals with a busy lifestyle and can be performed with simple equipment. Students will learn proper body position and alignment, exercises that isolate and overload targeted muscle groups, and compound muscle movements.

KIN 33 - Aerobic Mix **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course examines forms of aerobic exercise to increase cardiorespiratory conditioning through choreographed routines. Students will learn different styles of aerobics including floor, step, and interval. The benefits of aerobic exercise will be explored with emphasis on cardiovascular health and body composition.

KIN 34 - Step Aerobics **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course examines step aerobics for increasing cardiorespiratory fitness through choreographed routines to music. Students will learn dynamic step aerobic routines, basic stretch, and core strengthening exercises. The benefits of aerobic training, step safety, and principles of fitness are emphasized.

KIN 35 - Aerobic Dance **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course examines forms of aerobic dance to increase cardiorespiratory conditioning through choreographed routines to music. Movements from jazz, hip hop, ballet and Latin dance will be combined into hi-low impact routines. Principles of fitness and health with an emphasis on cardiovascular improvements and body composition will be explored.

KIN 36 - Gentle Aerobics and Movement **1.5 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 34 hours Lab
This course teaches students the fundamental skills of aerobics and movement with a focus on a gentle approach. This specific type of aerobics and movement will allow the students to exercise safely while improving their level of fitness by developing cardiovascular endurance, balance and strength. Basic skills and exercise techniques are utilized through movement patterns and simple choreography.

KIN 38 - Ballroom Dance I **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course introduces students to ballroom dance as a social and recreational activity, with the goals of building confidence and leading to an active lifestyle. Emphasis will be placed on basic skills and information such as partnering, alignment, safety, footwork, and technique. Additionally, students will learn the history, culture, and etiquette associated with various ballroom dances.

KIN 39 - Ballroom Dance II **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course is a continuation of Ballroom Dance I, emphasizing style and techniques. This course will also introduce the concepts of musicality, choreography and student creativity with focus on intermediate dance and social skills.

KIN 40 - Jazz Dance I **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction centered upon improving the knowledge and physical techniques of jazz dance. The course will identify jazz dance styles: lyrical, contemporary, and character/musical theater. Basic jazz dance techniques, choreography, and vocabulary will be applied and practiced.

KIN 41 - Gentle Yoga **1.5 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 34 hours Lab
This course introduces students to the art and practice of gentle yoga, using postures which are gentle in nature and allow a vast majority of the population to perform them. The course includes an introduction to modified physical postures (asana) which stretch and move the spine and limbs as well as basic breathing techniques (pranayama), which refers to the expansion of the breath. Students will learn relaxation techniques for decreasing stress and physical discomfort.

KIN 42 - Yoga I **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course introduces the fundamental principles of yoga. Students will learn basic poses (asana), basic breathing techniques (pranayama), and relaxation techniques. Students will also develop knowledge of personal restraints (yamas) and meditation (dhyana).

KIN 43 - Yoga II **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course is a continuation of Yoga I. Students will learn a progression of yoga postures (asanas) and intermediate level asanas. Breathing techniques (pranayama) will accompany each posture learned in this course. Emphasis is placed upon a deeper understanding of yoga philosophy.

KIN 44 - Jazz Dance II **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course is a continuation of Jazz Dance with an emphasis on more complex steps, dance combinations, terminology, music, style and techniques. Areas of emphasis will include intermediate concepts of styles, vocabulary, body alignment and choreography. The works of professional choreographers in addition to general concepts and skills throughout the course will be used to inform the creation of unique choreography in a solo or duet form.

KIN 45 - Pilates **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course introduces students to the fundamental skills of Pilates. Pilates is a mind-body form of exercise that enhances overall health and fitness. Students will learn the principles of Pilates and the basic and progressive Pilates movements. Emphasis will be placed on understanding the muscles that are used for specific movements and how to activate the muscles needed to properly perform these movements.

KIN 46 - Tai Chi Chuan **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course is an introduction to the ancient Chinese art of Tai Chi Chuan. The course covers terminology, history, and philosophies associated with Tai Chi Chuan. Students will learn Tai Chi moves, Chi Gung exercises and their purpose that will help them in movement and attitude.

KIN 47 - Stress Management Techniques and Exercise **1.5 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 34 hours Lab
This course provides experiential instruction in personal stress management, with a focus on physical techniques and exercise for relaxation. Students will learn a variety of stress management skills to address personal, social, and environmental stressors. Students will learn to differentiate between and control different stress types for balance in life.

KIN 48 - Stretching for Life **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of stretching. This flexibility fitness program, which will improve one's range of motion and muscular flexibility, helps prevent injuries while increasing one's total fitness.

KIN 49 - Fit Mix **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
In this course students will be introduced to the fundamental skills of fitness. The instruction will cover the five components of fitness including cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition. The focus of the class will be a mix of beginning exercise programs that will help improve these components of fitness through walking, jogging, interval training, strength bands, stability balls, core and stretching exercises.

KIN 50 - Stability Ball Fitness **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course introduces the fundamentals of core training with stability balls as the primary modality. Emphasis will be placed on the use of stability balls in combination with proprioception, body weight, resistance bands, dumbbells, and flexibility training. Students will learn the benefits of resistance and flexibility training and how to apply the guidelines for proper exercise programs with stability balls.

KIN 51 - Butte Fitness and Wellness Center **0.5 - 1.5 Unit(s)**
Transfer Status: CSU/UC 25.5 - 76.5 hours Lab
This course provides each student with an individualized fitness program. A flexible workout schedule supports each student's academic coursework. The fitness center encourages participation at the student's level of fitness and allows for gradual progress toward a lifetime committment to fitness and wellness. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 1.50 units. Pass/No Pass Only. Open Entry/Open Exit.

KIN 52 - Walking for Fitness **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of walking to improve cardiovascular fitness. Students will learn types of walking, workout strategies, and the components of fitness will be examined.

KIN 53 - Jogging/Running for Fitness **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of jogging/running to improve cardiovascular fitness. Students will learn cardiovascular workout strategies, injury prevention, safety factors, health issues and the components of fitness.

KIN 57 - Archery **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course introduces the basic principles and skills of archery and develops the student's shooting form and marksmanship. Emphasis of instruction will be placed on the fundamentals of target shooting, care of equipment, safety rules, and individual practice.

KIN 58 - Badminton **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of badminton. Students will learn all primary shots including serves, overhead shots, underhand shots, and drop shots. Skills, etiquette, court strategy, and rules will be applied through game play.

KIN 60 - Bowling **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the basic principles and skills of bowling and develops the student's four step approach, grip, and delivery. Emphasis will be placed on spare and strike position strategies, ball control techniques, and scoring. Students will also learn safety rules, etiquette, and care of equipment for bowling.

KIN 61 - Golf **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of golf. Emphasis will be placed on proper grip, stance, swing, rules, and scoring. Students will also learn the etiquette of the game, correct use of various clubs and their flight trajectories.

KIN 62 - Tennis **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills and techniques of tennis. Emphasis will be placed upon the skills of service and receive, forehand, backhand, and volleys. Court, opponent strategy, etiquette, and the basic rules of play will be introduced and practiced through match play.

KIN 63 - Track and Field **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course improves knowledge, fitness, and performance specific to Track and Field. Instruction is focused on the proper techniques of stretching, running, speed, agility, and power recruitment. Emphasis will be placed on proper technique for each event to ensure safety for all students.

KIN 64 - Baseball **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of baseball, including throwing, catching, batting, and base running. Students will learn about team play and offensive and defensive strategies. Emphasis is placed on skill improvement, team cooperation, and safety procedures. Students will practice skills through game play and structured practice plans.

KIN 65 - Soccer **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course improves cardiovascular endurance, strength and game knowledge. Students will learn the basic rules, skills and techniques of soccer. Emphasis will be placed on kicking, dribbling, trapping, heading, passing, and receiving. All skills including offensive and defensive strategies will be learned through live game play.

KIN 66 - Softball **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of softball, including catching, throwing, batting, and base running. Students will learn about team play and offensive and defensive strategies. Emphasis is placed on skill improvement, team cooperation, and safety procedures. Students will practice skills through game play and structured practice plans.

KIN 67 - Non-Contact Football **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of non-contact football (touch or flag). Skills learned will include blocking, passing, team play, and offensive and defensive strategies. Emphasis is placed on skill improvement, team cooperation, and safety procedures. Students will practice skills through game play and structured practice plans.

KIN 68 - Volleyball I **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the six basic skills of volleyball: passing, setting, hitting, serving, blocking, and individual defense. Students will learn history, rules, etiquette, and safe play of volleyball. The elements of team play and game strategies will be identified and introduced.

KIN 69 - Volleyball II **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course builds upon the application of basic skills, team play, and offensive and defensive fundamentals learned in level one play. Additionally, rules and etiquette will be applied in structured game play. Team play and strategy are the major focal points in the course. Components of individual play will be emphasized as inherent to team play and strategy.

KIN 70 - Basketball I **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides students with an introduction to the game of basketball. Specific attention will be focused upon standard rules, sportsmanship, etiquette, offensive and defensive team play, and the application of game strategy. Individual fundamentals will focus on offensive and defensive techniques specific to footwork, ball skills (i.e., shooting, passing, and dribbling), and rebounding.

KIN 71 - Basketball II **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course builds upon the application of individual offensive and defensive fundamentals learned in level one play. Team play and strategy are the major focal points in this course. Components of individual play will be emphasized as inherent to team play and strategy.

KIN 73 - Self Defense **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the basic skills and knowledge of self defense against physical assault. Emphasis will be placed on the basic techniques of anticipating, avoiding, and protecting oneself from physical attack. Students will also develop a consciousness and knowledge about the legal aspects of self defense.

KIN 74 - Boxing **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills and techniques of boxing. Instruction will include the rules, proper stance, footwork, offensive strategies, and defensive strategies. Emphasis will be placed on increasing self confidence, enhancing balance, and improving core strength.

KIN 75 - Jujitsu **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course teaches the basic self-defense application, strategies, history, philosophy and training practices of the Japanese art of Jujitsu. Emphasis will be placed on blocks, escapes, holds, and grappling strategies.

KIN 76 - Aikido **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills, moves and techniques of the Japanese Martial Art, Aikido. Students will learn to defend themselves while also protecting their attacker from injury. Basic self defense application and strategies, history, philosophy and training practices will be examined.

KIN 77 - Karate **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of Karate. Basic moves and techniques for blocking, punching, kicking and sparring will be learned. Students will also learn the philosophy of proper use, attitude, defense techniques, and physical conditioning.

KIN 78 - Taekwondo **1.5 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 34 hours Lab
This course provides instruction in the fundamental skills of the ancient martial art of Taekwondo. It is designed for a beginning level student. Emphasis will be placed on kicking and punching techniques, along with the proper techniques used in Olympic sparring. This course is designed to take each student up to the level of yellow belt, green stripe. (Belt testing under a recognized institution is optional).

KIN 80 - Varsity Baseball **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
This course is designed for students who meet the criteria to compete in intercollegiate baseball. All varsity sports entail practice and games at designated times. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 81 - Varsity Basketball **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
This course is designed for students who meet the criteria to compete in intercollegiate basketball. All varsity sports entail practice at designated times. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 82 - Varsity Cross Country **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
This course is designed for students who meet the criteria to compete in intercollegiate cross country. All varsity sports entail practice at designated times. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 83 - Varsity Football **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
This course is designed for students who meet the criteria to compete in intercollegiate football. All varsity sports entail practice at designated times. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 84 - Varsity Golf **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
This course is designed for students who meet the criteria to compete in intercollegiate golf. All varsity sports entail practice at designated times. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 85 - Varsity Soccer **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
This course is designed for students who meet the criteria to compete in intercollegiate soccer. All varsity sports entail practice at designated times. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 86 - Varsity Softball **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
This course is designed for students who meet the criteria to compete in intercollegiate softball. All varsity sports entail practice at designated times. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 87 - Varsity Track and Field **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
This course is designed for students who meet the criteria to compete in intercollegiate track and field. All varsity sports entail practice at designated times. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 88 - Varsity Volleyball **3 Unit(s)**
Transfer Status: CSU/UC 153 hours Lab
This course is designed for students who meet the criteria to compete in intercollegiate volleyball. All varsity sports entail practice at designated times. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 90 - Skill Development for Intercollegiate Athletes **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This is a sport-specific skill development course for intercollegiate athletes. Emphasis will be on off-season preparation which includes cardiovascular endurance, flexibility, speed work, plyometric training, and sport-specific activities. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 91 - Strength and Conditioning for Intercollegiate Athletes **1 Unit(s)**
Transfer Status: CSU/UC 11 hours Lecture / 23 hours Lab
This course is designed for intercollegiate athletes. Students will be provided with instruction in sport-specific training techniques with the goal of improving overall muscular strength, endurance, and power. Students will develop and maintain a strength and conditioning program using sport-specific drills and equipment. Key areas of study include anatomy and physiology, applied strength and conditioning, psychology of training, motor control, and the prevention of sports injuries. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

KIN 93 - Pep Activities **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course provides instruction in the development and practice of pep activities, including dance, choreography, and routine design. There will be emphasis on safety, performance, and cooperative work with others. Students will be required to attend and perform at athletic events.

KIN 94 - Adaptive Physical Education **1.5 Unit(s)**
Transfer Status: CSU/UC 17 hours Lecture / 34 hours Lab
This course introduces students to adaptive physical activities that develop strength, cardiovascular endurance, and flexibility. Activity programs will be designed to address individual student need based on physical ability, fitness level, and skill. Individual instruction may include jogging, walking, weight training, biking, aquatics, and flexibility programs.

KIN 95 - Special Studies-KIN **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Latin (LATN)

LATN 1 - First Semester Latin **4 Unit(s)**
Transfer Status: CSU/UC 68 hours Lecture
This is a translation course in elementary Latin, emphasizing a foundational knowledge of Latin pronunciation, vocabulary, grammar, and syntax. Students study the Latin linguistic influence on the English language. Critical discussions on the aspects of Roman civilization relevant to the Latin readings will provide the cultural background with which the student can assess the Roman contribution to modern society. Students who have completed at least one, but fewer than two years of high school Latin (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should register for Second Semester Latin.

LATN 2 - Second Semester Latin **4 Unit(s)**
Prerequisite(s): LATN 1
Transfer Status: CSU/UC 68 hours Lecture
This course emphasizes an extended knowledge of Latin pronunciation, vocabulary, grammar, and syntax, especially forms of the verb in the indicative mood. This course requires a study of the Latin linguistic influence on the English language. Critical discussions on aspects of Roman civilization relevant to Latin readings will provide a cultural background with which students can assess the Roman contribution to modern society. Students who have completed at least two, but fewer than three years of high school Latin (or equivalent) with a letter grade of "A" or "B" within one year of the present date should register for Third Semester Latin.

LATN 3 - Third Semester Latin **4 Unit(s)**
Prerequisite(s): LATN 2
Transfer Status: CSU/UC 68 hours Lecture
This course develops proficient knowledge of Latin pronunciation, vocabulary, composition, syntax and especially grammatical constructions using subjunctive verbs. This course requires the study of Latin influence on the English language and Roman cultural influence on modern civilization.

LATN 95 - Special Studies-LATN **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Library & Information Science (LIS)

LIS 11 - Research Strategies **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
This course is intended for students wishing to improve their information reasearch skills. Students will develop their abilities to locate, interpret, analyze, synthesize, evaluate and communicate information effectively. Students will learn how to identify and define the scope of a research topic and how to effectively research relevant online catalogs, electronic databases and the World Wide Web.

LIS 126 - Library and Research Skills **1 Unit(s)**
Transfer Status: NT 17 hours Lecture
This course introduces students to recognizing and using a variety of information resources and formats for research and lifelong learning. Students will be introduced to Butte College information resources, with emphasis on, but not limited to Library resources. Students will learn basic techniques and tools for finding and evaluating information in libraries, the campus community, and the World Wide Web. Pass/No Pass Only.

Life Management (LM)

LM 40 - Life Management **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces the psychological, physiological and social principles needed to achieve personal success in college, relationships, the world of work and life. Students explore how life management strategies positively impact management of one’s goals, time, finances, stress and personal wellness; and learn to employ strategies for college success and lifelong learning by identifying one’s learning style, personality types, values, attitudes, skills and motivation. Within this course Adult Learning Theory will be explored including Mindset Theory and the influences they have on student success in college.

Mathematics (MATH)

MATH 4 - Concepts in Mathematics for Teachers I **3 Unit(s)**
Prerequisite(s): MATH 116 or MATH 124 or Equivalent
Transfer Status: CSU 51 hours Lecture
This course focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. (C-ID MATH 120).

MATH 5 - Concepts in Mathematics for Teachers II **4 Unit(s)**
Prerequisite(s): MATH 116 or MATH 124 or Equivalent
Transfer Status: CSU/UC 68 hours Lecture
This course develops mathematical topics needed for elementary school teaching with a focus on reasoning, problem solving, and communication. The topics include elementary statistics and probability, two- and three-dimensional geometry, measurement, coordinate geometry, and graphing. Meets requirements for elementary school teacher certification.

MATH 7 - Formal Logic and Writing **3 Unit(s)**
Prerequisite(s): ENGL 2 or ENGL 3
Transfer Status: CSU/UC 51 hours Lecture
This course develops an understanding of the relationship of language to logic, which should lead to the ability to analyze, criticize, and advocate ideas and to reason inductively and deductively. Skills will be developed through writing as well as the formal symbolic representation of arguments.

MATH 11 - Math for Liberal Arts **3 Unit(s)**
Prerequisite(s): MATH 116 or MATH 124 or Equivalent
Transfer Status: CSU 51 hours Lecture
This course is a survey of mathematical concepts in a variety of areas. The topics include probability, statistics, set theory, measurement, geometry, and business finance.

MATH 12 - Mathematics for Business Decisions (Finite Mathematics) **3 Unit(s)**
Prerequisite(s): MATH 116 or MATH 124 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture
Linear functions, systems of linear equations and inequalities, matrices, linear programming, mathematics of finance, sets and Venn diagrams, combinatorial techniques and an introduction to probability. Applications in business, economics and social sciences. (C-ID MATH 130).

MATH 13 - Survey of Calculus **4 Unit(s)**
Prerequisite(s): MATH 116 or MATH 124 or Equivalent
Transfer Status: CSU/UC 68 hours Lecture
Presents a study of the techniques of calculus with emphasis placed on the application of these concepts to business and management related problems. The applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied. (C-ID MATH 140).

MATH 17 - Investigative Introductory Statistics **4 Unit(s)**
Prerequisite(s): MATH 116 or MATH 124 or Equivalent
Transfer Status: CSU/UC 34 hours Lecture / 68 hours Activity
This course is a guided investigation of how to summarize and interpret data to facilitate decision making in a responsible and repeatable way. The use of symbolic manipulation of data, probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making will be emphasized. Topics include data visualization; descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from a broad range of disciplines within the physical and social sciences. This course emphasizes in-class activities and applications.

MATH 18 - Introduction to Statistics **4 Unit(s)**
Prerequisite(s): MATH 116 or MATH 124 or Equivalent
Transfer Status: CSU/UC 68 hours Lecture
The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education. (C-ID MATH 110).

MATH 20 - Trigonometry **3 Unit(s)**
Prerequisite(s): MATH 116 or MATH 124 or Equivalent
Transfer Status: CSU 51 hours Lecture
This course covers the theory and applications of trigonometry. The topics include definitions of circular and right triangle trigonometric functions, graphs, identities, equations, solutions of right and oblique triangles, vectors, polar coordinates, and complex numbers.

MATH 26 - College Algebra **4 Unit(s)**
Prerequisite(s): MATH 116 or MATH 124 or Equivalent
Transfer Status: CSU/UC 68 hours Lecture
This course covers advanced algebra concepts beyond the scope of Intermediate Algebra. The topics include algebraic simplifying, conics, theory and solution of equations and inequalities, systems of equations, linear functions, exponential and logarithmic functions, polynomial and rational functions, binomial expansion and partial fractions. The course is specifically designed for preparation for first semester Calculus (MATH 30).

MATH 30 - Analytic Geometry and Calculus I **5 Unit(s)**
Prerequisite(s): MATH 20 and MATH 26 or college-level pre-calculus
Transfer Status: CSU/UC 85 hours Lecture
A first course in differential and integral calculus of a single variable: functions, limits and continuity, techniques and applications of differentiation and integration, Fundamental Theorem of Calculus. Primarily for Science, Technology, Engineering & Math Majors. (C-ID MATH 210).

MATH 31 - Analytic Geometry and Calculus II **4 Unit(s)**
Prerequisite(s): MATH 30
Transfer Status: CSU/UC 68 hours Lecture
This course is the second of a series in differential and integral calculus of a single variable. Topics will include the concept, techniques and applications of integration, infinite sequences and series, as well as polar and parametric equations. Intended for Science, Technology, Engineering & Math Majors. (C-ID MATH 220).

MATH 32 - Analytic Geometry and Calculus III **4 Unit(s)**
Prerequisite(s): MATH 31
Transfer Status: CSU/UC 68 hours Lecture
Vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's Theorem, Stokes' Theorem, divergence theorem. (C-ID MATH 230).

MATH 40 - Differential Equations **4 Unit(s)**
Prerequisite(s): MATH 31
Transfer Status: CSU/UC 68 hours Lecture
The course is an introduction to ordinary differential equations including both quantitative and qualitative methods as well as applications from a variety of disciplines. Introduces the theoretical aspects of differential equations, including establishing when solution(s) exist, and techniques for obtaining solutions, including, series solutions, and singular points, Laplace transforms and linear systems. (C-ID MATH 240).

MATH 42 - Linear Algebra **3 Unit(s)**
Prerequisite(s): MATH 30
Transfer Status: CSU/UC 51 hours Lecture
This course develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, and linear transformations. Selected applications of linear algebra are included. (C-ID MATH 250).

MATH 95 - Special Studies-MATH **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

MATH 108 - Beginning Algebra **4 Unit(s)**
Transfer Status: NT 68 hours Lecture
This course covers fundamental algebraic concepts and operations. The topics include operations with positive and negative real numbers, solving linear, quadratic, and rational equations, applications of linear equations, operations with polynomials, exponential and rational expressions, factoring, graphing linear equations in two variables, and solving systems of linear equations.

MATH 110 - Geometry **3 Unit(s)**
Prerequisite(s): MATH 108 or Equivalent
Transfer Status: NT 51 hours Lecture
This course covers selected topics in geometry. The topics include congruence, similarity, parallelism, proofs, constructions, the perimeter, area and volume of geometric figures, and an introduction to right triangle trigonometry.

MATH 116 - Accelerated Algebra **6 Unit(s)**
Prerequisite(s): MATH 108 or MATH 217 or Equivalent
Transfer Status: NT 102 hours Lecture
This course combines the concepts found in traditional elementary and intermediate algebra in an accelerated format. The topics include operations with real numbers, exponential, polynomial, rational, and radical expressions; solving linear, quadratic rational, radical, exponential, and logarithmic equations, inequalities and systems of equations. Additional topics include factoring polynomials, function, complex numbers, graphing of equations and inequalities in one and two variables, applications and an introduction to conic sections so the student can develop techniques to investigate relationships among number types, symbolic manipulation, and graphing.

MATH 118 - Pre-Statistics and Pre-Liberal Arts Math **4 Unit(s)**
Prerequisite(s): Appropriate placement with Multiple Measures
Transfer Status: NT 68 hours Lecture
This course will cover the arithmetic, algebra, technology usage, quantitative language, and data analysis knowledge necessary to succeed in Introductory Statistics or liberal arts mathematics. Emphasis will be on critical thinking and data representation in a real-world context. It is not intended for students majoring in math, science, computer science, or business.

MATH 124 - Intermediate Algebra **5 Unit(s)**
Prerequisite(s): MATH 108 or Equivalent
Transfer Status: NT 85 hours Lecture
This course builds on the concepts and skills learned in Elementary Algebra. The topics include exponents and polynomials, rational and radical expressions and equations, linear and quadratic equations and inequalities, functions, complex numbers, logarithms, and applications.

MATH 216 - Basic Math **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course is designed to review operations of whole numbers and to develop concept and computational skills with fractions, decimals, percents, prime factoring, exponents, limited use of calculators, measurement, area, perimeter, and basic statistics.

MATH 217 - Pre-Algebra **4 Unit(s)**
Transfer Status: NT 68 hours Lecture
This course introduces elements of algebra and reinforces skills needed for operations with real numbers. The topics include operations on integers, fractions, mixed numbers and decimals, ratio, proportion and percents, algebraic expressions and equations, measurement and geometry, exponents, graphing linear equations in two variables, and a variety of applications.

MATH 318 - Math Foundations **0 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course provides students the opportunity to refresh and build their math skills, including fractions, decimals, percents, proportions, integers, measurement, simplifying expressions, solving equations, and graphing lines. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to meet legally mandated training requirements. Satisfactory/Unsatisfactory Only.

Multicultural and Gender Studies (MCGS)

MCGS 8 - Introduction to Multicultural and Gender Studies **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
An introduction to the concepts, terminology, and issues in multicultural and gender studies. Topics include an exploration of America's multicultural history, gender as an element of culture, social inequality, and contemporary social issues from multiple perspectives to arrive at a plural and multicultural understanding of American society.

MCGS 10 - Introduction to Women's Studies **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is designed to introduce students to women's studies as an interdisciplinary field of knowledge that explores critical questions about the meaning of gender in society. Women's studies strives to provide equal education to both women and men by making the study of the history and culture of women and women's experiences, generally omitted from the traditional curriculum, the central focus of concentrated scholarship and learning. The purpose of the course is to involve students in the ongoing dialogue of women's experiences and women's socialization by gender, class, race, ethnicity, and culture. Gender scholarship critically analyzes themes of gendered performance and power in a range of social spheres, such as law, culture, education, work, medicine, social policy, the media, and the family.

MCGS 32 - Introduction to African American Studies **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a multi-disciplinary exploration of the cultural history and experience of African Americans. The African American experience is described and conceptualized as a function of cultural history and the adaptations made by African Americans in more contemporary contexts. The culmination of the comprehensive and detailed history highlights the challenges and creative triumphs of African Americans as indicated through action in social, political, economic, religious, and artistic endeavors.

MCGS 36 - Introduction to Chicano American Studies **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
A multi-disciplinary exploration of the cultural and social milieu of Chicano Americans. "Chicano" is defined as the first generation of Mexican-Americans born to parents from Mexico. Students will trace the development of a definition and rationale for Chicanismo through a critical and comparative examination of relevant literature. Areas that will be examined will include economics, family and religion, social and political behavior, health, education and prejudice, among others. Also included in this examination will be a specific look at the Chicano movement, its goals, methods, and people.

MCGS 38 - Introduction to Asian American Studies **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of the rich and diverse cultural history of various Asian American communities (Chinese, Korean, Japanese, Southeast Asian American, etc.). Emphasis is given to the cultural and historical circumstances that caused various Asian populations to resettle in the United States. Various Asian American populations will be described according to their immigration and refugee challenges, cultural adaptations, and unique contributions to American society as a whole.

MCGS 95 - Special Studies-MCGS **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Manufacturing (MFG)

MFG 10 - Introduction to Manufacturing Equipment **8 Unit(s)**
Prerequisite(s): ITEC 55
Co-requisite(s): MFG 12, MFG 14, MFG 16
Transfer Status: CSU 85 hours Lecture / 153 hours Lab
This course is designed to provide an introduction to basic manufacturing equipment as it relates to advanced manufacturing. Emphasis will be placed on developing safety skills as well as the terminology, history and future of the advanced manufacturing industry. Students will develop necessary skills in basic measurement and trade math, proper tool selection, identifying equipment types, equipment maintenance, drawing interpretation, creating and processing work orders, quality assurance and efficient application of the knowledge of proper feeds, speeds, and pressures. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 12 - Introduction to Production Welding **3 Unit(s)**
Prerequisite(s): ITEC 55
Co-requisite(s): MFG 10, MFG 14, MFG 16
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed to provide an introduction to production welding using the gas metal arc welding process as it relates to advanced manufacturing. Emphasis will be placed on developing safety skills, measuring skills, trade math, communication skills, types of filler metal transfers, filler metals, shielding gases, materials, equipment operation, troubleshooting, and maintenance, drawings, work orders, quality assurance, and the industry terminology, history, and future. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 14 - Introduction to Finishing **3 Unit(s)**
Prerequisite(s): ITEC 55
Co-requisite(s): MFG 10, MFG 12, MFG 16
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed to provide and introduction to basic finishing as it relates to advanced manufacturing. Emphasis will be placed on developing safety skills, trade math, and the industry terminology, industry history and future, types of finishes, base materials, surface prep, durability, application types, aesthetics, equipment types, equipment maintenance, troubleshooting of equipment, work orders, and quality assurance. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 16 - Introduction to the Process of Modeling to Production **3 Unit(s)**
Prerequisite(s): ITEC 55
Co-requisite(s): MFG 10, MFG 12, MFG 14
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed to provide an introduction of modeling to production as it relates to advanced manufacturing. Emphasis will be placed on developing basic safety skills, trade math, and the industry terminology, history, and future. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 20 - Manufacturing Equipment **8 Unit(s)**
Prerequisite(s): MFG 10, MFG 12, MFG 14, MFG 16
Co-requisite(s): MFG 22, MFG 24, MFG 26
Transfer Status: CSU 85 hours Lecture / 153 hours Lab
This course is designed to introduce the principals and practices of manufacturing equipment as it relates to advanced manufacturing. Emphasis will be placed on developing safety and operation skills used to operate CNC manufacturing equipment. Students will also learn measuring and trade math, tool selection and identification, equipment types, equipment maintenance, drawings, work orders, quality assurance, feeds, speeds, and pressures. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 22 - Production Welding **3 Unit(s)**
Prerequisite(s): MFG 10, MFG 12, MFG 14, MFG 16
Co-requisite(s): MFG 20, MFG 24, MFG 26
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed to provide training in production welding using pulse spray gas metal arc welding process as it relates to advanced manufacturing. Emphasis will be placed on developing safety skills, measuring skills, trade math, communication skills, focus on pulse spray transfer process, filler metals, shielding gases, materials, equipment operation, troubleshooting, and maintenance, drawings, work orders, quality assurance, and the industry terminology, history, and future. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 24 - Finishing **3 Unit(s)**
Prerequisite(s): MFG 10, MFG 12, MFG 14, MFG 16
Co-requisite(s): MFG 20, MFG 22, MFG 26
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed to develop skills involving finishing applications in advanced manufacturing. Emphasis will be placed on developing safety skills, trade math, surface preparation, types of application equipment, application methods, aesthetics, durability, product types, equipment maintenance, troubleshooting of equipment, work orders, and quality assurance. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 26 - Intermediate Modeling to Production **3 Unit(s)**
Prerequisite(s): MFG 10, MFG 12, MFG 14, MFG 16
Co-requisite(s): MFG 20, MFG 22, MFG 24
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed to develop intermediate skills related to modeling to production as it relates to the advanced manufacturing. Emphasis will be placed on developing basic safety skills, trade math, file types and conversions, applications of modeling and production software, equipment selection, data input, and production application. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 30 - ERP (Enterprise Resource Planning) Software for Manufacturing **3 Unit(s)**
Prerequisite(s): MFG 20, MFG 22, MFG 24, MFG 26
Co-requisite(s): MFG 32, MFG 34, MFG 36
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed to introduce the principals and practices of ERP (enterprise resource planning) software as it relates to advanced manufacturing. Emphasis will be placed on developing introductory skills to ERP software in the areas of information, production, planning development, manufacturing, customers, and quality control. Students will begin to learn the flow of products through the facility and be able to recognize ways to increase efficiencies. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 32 - Introduction to Robotic Welding **4 Unit(s)**
Prerequisite(s): MFG 20, MFG 22, MFG 24, MFG 26
Co-requisite(s): MFG 30, MFG 34, MFG 36
Transfer Status: CSU 42.5 hours Lecture / 76.5 hours Lab
This course is designed to provide an introduction to production welding using a robotic welding process as it relates to advanced manufacturing. Emphasis will be placed on developing safety skills, measuring skills, trade math, communication skills, focus on pulse spray transfer process, filler metals, shielding gases, materials, equipment operation, troubleshooting, and maintenance, drawings, work orders, quality assurance, jigs, and fixtures. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 34 - 3D Modeling to Production **3 Unit(s)**
Prerequisite(s): MFG 20, MFG 22, MFG 24, MFG 26
Co-requisite(s): MFG 30, MFG 32, MFG 36
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed to develop skills around the cycle of advanced manufacturing from 3D modeling to production. Emphasis will be placed on developing basic safety skills, trade math, and the industry terminology, history, and future. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 36 - Internship W/ Local Trade Company **4 Unit(s)**
Prerequisite(s): MFG 20, MFG 22, MFG 24, MFG 26
Co-requisite(s): MFG 30, MFG 32, MFG 34
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course is designed to develop students skills by simulations and field internship experiences required to meet industry standards and ISO 9000 (International Organization for Standardization), learn manufacturing standards and Cal OSHA standards and practices. Emphasis will be placed on developing safety skills, troubleshooting skills, production, shop flow, and equipment operations and capabilities. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 40 - Advanced ERP (Enterprise resource Planning) Software for Manufacturing **3 Unit(s)**
Prerequisite(s): MFG 30, MFG 32, MFG 34, MFG 36
Co-requisite(s): MFG 42, MFG 44, MFG 46
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed to provide the principals and practices of ERP (enterprise resource planning) software as it relates to advanced manufacturing. Emphasis will be placed on developing advanced skills related to ERP software in the areas of information, production, planning development, manufacturing, customers, and quality control, employees, quotes, sales orders, invoices, and billing. Students will advance their skills as it relates to the flow of products through the facility and be able to recognize ways to increase efficiencies. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 42 - Advanced Robotic Welding **4 Unit(s)**
Prerequisite(s): MFG 30, MFG 32, MFG 34, MFG 36
Co-requisite(s): MFG 40, MFG 44, MFG 46
Transfer Status: CSU 42.5 hours Lecture / 76.5 hours Lab
This course is designed to develop skills in production welding using a robotic welding process as they relate to advanced manufacturing. Emphasis will be placed on developing safety skills, measuring skills, trade math, communication skills, focus on pulse spray transfer process, filler metals, shielding gases, materials, equipment operation, troubleshooting, and maintenance, single and dual sided, drawings, work orders, quality assurance, weld evaluation, jigs, and fixtures. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 44 - Advanced 3D Modeling to Production **3 Unit(s)**
Prerequisite(s): MFG 30, MFG 32, MFG 34, MFG 36
Co-requisite(s): MFG 40, MFG 42, MFG 46
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed to further develop skills around the cycle of advanced manufacturing from 3D modeling to production. Emphasis will be placed on developing basic safety skills, multiple layers to equipment, making assemblies of parts, using 2D materials to make 3D parts, and the industry terminology. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 46 - Advanced Internship W/ Local Trade Company **4 Unit(s)**
Prerequisite(s): MFG 30, MFG 32, MFG 34, MFG 36
Co-requisite(s): MFG 40, MFG 42, MFG 44
Transfer Status: CSU 34 hours Lecture / 102 hours Lab
This course is designed to develop students skills by simulations and field internship experiences required to meet industry standards and ISO 9000 (International Organization for Standardization), learn manufacturing standards and Cal OSHA standards and practices. Emphasis will be placed on developing safety skills, production flows, shop operations, equipment operations and capabilities, tooling limitations, product design, product assembly, cost estimating, finishing, and management skills. These areas of instruction will be reinforced by hands-on application in several performance lab exercises.

MFG 97 - Special Problems-MFG **1 - 3 Unit(s)**
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

MFG 99 - Work Experience-MFG **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Multimedia Studies Program (MSP)

MSP 1 - Multimedia Careers **3 Unit(s)**
Transfer Status: CSU 42.5 hours Lecture / 25.5 hours Lab
This course introduces the fundamental concepts and skills needed to pursue a multimedia career, and is taken during the first semester of enrollment in the program. The course develops a strong foundation for more specialized course work in Graphic Design for Print and Digital Media, Digital Video and Audio, Digital Photography, Two-and Three-Dimensional Modeling and Animation, and Multimedia Authoring.

MSP 5 - Introduction to Interactive Web Design and Authoring **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to developing interactive content for the World Wide Web. Students will survey online content to gain an understanding of effective Web design principles. Students will learn how to produce interactive content using a variety of programs to create and process text, sound, graphics and video. As a final project, students will design and produce an interactive Website.

MSP 9 - Concept Art and Design for Entertainment Media **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to visualization techniques, ideation processes, and the tools and materials used in professional concept studios in the video game and entertainment industries. Students will be introduced to the history of concept art and its evolution from industrial design and architecture to modern day use in video games, entertainment, and toy design. Students will learn how to develop concepts from the sketch phase through final presentation drawings, brainstorming and teamwork, reading and adapting project briefs, and creating professional presentation boards. This is an essential foundation course for programs and careers in concept art, video games, animation, digital design, graphic design, and industrial design.

MSP 10 - Digital Video Design and Production **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to the use of computer and video editing software to create video sequences. Students will use computers to apply the basic concepts of video editing as used in TV, film, computer games, animation, internet design and other image based media.

MSP 12 - Two-Dimensional Animation **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to two-dimensional animation. Topics include storyboards, drawing extremes and in-betweens, defining motion paths, creating illusion of depth, basic Actionscripting for animation, use of type in animated sequences, and other animation techniques.

MSP 30 - Introduction to Digital Art **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an introduction to fundamental concepts, practices, and theories of digital art production. Topics include integration of traditional design, color, and compositional principles with contemporary digital tools. (C-ID ARTS 250).

MSP 42 - Flash Game Design **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the use of Adobe Flash as a tool for designing Flash games. Topics include the creation of Flash game art and the application of Flash ActionScript to add interactivity. Students will learn to design simple games using Flash.

MSP 44 - 3D Printing & Rapid Prototype Design **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to 3D printing for designing and producing physical 3D projects for output. The course covers the foundations of digital 3D design for 3D printing.

MSP 45 - 3-D Computer Modeling and Animation **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course introduces students to the use of software techniques to create and animate three-dimensional environments and objects. Students will learn to create photo-realistic models and scenes enhanced by lighting, shadows, reflection, and textures, and will learn to produce camera fly-throughs and basic character animation sequences.

MSP 50 - Digital Publication Design **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to electronic page layout and design. Topics include principles of traditional and digital document design, software instruction, basic principles of typography, layout, design, publishing and distribution.

MSP 51 - Photoshop for Designers **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to using Adobe Photoshop for digital compositing in illustration, advertising design, multimedia projects, designing for print media, and creating typographic imagery for design projects. Topics include: incorporating Photoshop into projects developed for print and online design, creating digital collages, and producing digital output for clients in the design industries.

MSP 52 - Portfolio Design and Production **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is designed for students preparing for employment in the multimedia and graphic design industries. Topics include design career opportunities, principles of portfolio preparation, portfolio design, software, digital and print production, and outlets for distribution.

MSP 53 - Designing for Mobile Devices **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to designing for mobile touchscreen devices including smartphones and tablets. Topics include developing mobile concepts, designing for mobile devices, prototyping, user experience and user interaction design processes.

MSP 55 - Introduction to Drone Management and Operations **3 Unit(s)**
Transfer Status: NT 34 hours Lecture / 51 hours Lab
This course is an introduction to the operation of drones, Unmanned Aerial Systems (UAS) and current and future developments within industries utilizing these systems. Topics include: ethical and legal issues, industry standards, operating unmanned aerial vehicles, communication, navigation, launch and recovery, control stations, payloads, video and photography and support equipment.

MSP 56 - Drone Video and Photography **3 Unit(s)**
Transfer Status: NT 34 hours Lecture / 51 hours Lab
Students will be introduced to the world of Unmanned Aerial Systems. This course takes a look at everything from current Unmanned Aircraft Systems to future civilian applications. In addition to learning about this new industry, students will be introduced to flying remotely piloted aircraft and operating entry level Unmanned Aerial Vehicles for the purposes of recording video and digital imaging.

MSP 68 - T-Shirt Design and Promotional Products **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
In this course students will develop digital art, illustration and graphic design projects for transfer to t-shirts, mugs and other promotional items. The students will work with media, conceptualization of ideas, collaboration, Photoshop, Illustrator, reproduction and production techniques. Students will be required to conduct research and identify target markets.

MSP 74 - Multimedia Production I **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to skills and techniques used to produce computer generated multimedia presentations. Areas of study will include the development of multimedia projects and the study of multimedia tools, the selection of hardware, use of text, photography, graphics, animation, digital video and audio.

MSP 75 - Multimedia Production II **3 Unit(s)**
Prerequisite(s): MSP 74
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This is an intermediate course in multimedia production that focuses on the application of interactive design techniques. Students will produce original content in the creation of multimedia projects.

MSP 96 - Introduction to Computer Graphics **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the skills, techniques and tools to produce computer generated graphics. Areas of study will include: the basics of computer drawing and design, adding text to graphics, converting and exporting graphics into multiple formats for print and online, and modification and transformation techniques.

MSP 97 - Special Problems-MSP **1 - 3 Unit(s)**
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

MSP 99 - Work Experience-MSP **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

MSP 300 - Maker Space Supervised Training and Skill Building **0 Unit(s)**
Transfer Status: NT 136 hours Lab
This course provides students with tutorial and training support using instructional aides, student tutors, and instructional technicians, to develop skills needed for modern computer-aided creation technologies used increasingly in a variety of traditional career tracks including creative arts, marketing, entrepreneurship and prototyping in engineering applications. The maker space course will allow for supported creation based choices made across programs and pedagogy to utilize hands on activities in a diverse cross-disciplinary environment. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to meet legally mandated training requirements. Ungraded. Open Entry/Open Exit.

Music (MUS)

Course Families

Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or 'W') within each family group.

Guitar : MUS 20, 21, 22, 23
Piano : MUS 40, 41, 42, 43
Voice : MUS 30, 31, 32, 33

MUS 1 - Music Appreciation **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a study of the music of western culture from antiquity to the present for understanding through informed listening, analysis, evaluation, and discernment of musical elements, forms, styles, repertoire and the role of music and musicians in the western world. (C-ID MUS 100).

MUS 3 - Music Fundamentals **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
An introduction to the notation and primary elements of tonal music. Incorporates the following concepts: staff notation in treble and bass clefs, rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; and diatonic chords. Development of skills in handwritten notation is expected. (C-ID MUS 110).

MUS 5 - American Popular Music **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course examines the development of popular music in America, from its African and European origins to the multitude of styles that exist today. Emphasis is on the historical and socio-economic factors that shaped this unique body of music. Through use of lecture, sound recordings, video and reading, students will develop a new awareness of the musical elements and stylistic continuity present in pop music.

MUS 6 - Women and Music **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of women's roles in the development of music. Students will explore why women have been historically overlooked. Course content includes women's roles as composers, performers, poets, patrons, promoters, and publishers.

MUS 7 - Jazz Appreciation **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is the study of jazz from its African origins to the various forms in which it exists today. Emphasis is on historical and socio-economic factors in the development of jazz. The course includes a stylistic analysis of jazz and its musical elements in order to develop musical awareness.

MUS 9 - World Music **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to the music of non-Western cultures. The course examines the music of a number of cultures including representative examples drawn from the traditions of Africa, Southeastern Europe, Asia, and Latin America. Classical, folk and popular idioms are explored with emphasis on how the various cultures influence the creation and performance of music.

MUS 10 - Music Theory I **3 Unit(s)**
Co-requisite(s): MUS 11 and MUS 20, MUS 30 or MUS 40
Transfer Status: CSU/UC 51 hours Lecture
This course, through guided composition and analysis, incorporates the following concepts: rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; diatonic chords, basic cadential formulas and phrase structure; dominant seventh; figured bass symbols; and non-harmonic tones. Development of skills in handwritten notation is expected. Examples from, and discussion about historical and social contexts will be integrated throughout the course. (C-ID MUS 120).

MUS 11 - Musicianship I **1 Unit(s)**
Co-requisite(s): MUS 10 and MUS 20, MUS 30 or MUS 40
Transfer Status: CSU/UC 51 hours Lab
This course applies and develops the rhythmic, melodic, and harmonic materials presented in Music Theory I through ear training, sight singing, analysis, and dictation. (C-ID MUS 125).

MUS 12 - Music Theory II **3 Unit(s)**
Prerequisite(s): MUS 10
Co-requisite(s): MUS 13 and MUS 21, MUS 31 or MUS 41
Transfer Status: CSU/UC 51 hours Lecture
This course incorporates the concepts from Music Theory I. In addition, through guided composition and analysis, the course will include: an introduction to two-part counterpoint; voice leading involving four-part chorale writing; diatonic harmony; and an introduction to secondary/applied chords and modulation. Examples from, and discussion about historical and social contexts will be integrated throughout the course.(C-ID MUS 130).

MUS 13 - Musicianship II **1 Unit(s)**
Prerequisite(s): MUS 11
Co-requisite(s): MUS 12 and MUS 21, MUS 31 or, MUS 41
Transfer Status: CSU/UC 51 hours Lab
This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory II through ear training, sight singing, analysis, and dictation. (C-ID MUS 135).

MUS 14 - Music Theory III **3 Unit(s)**
Prerequisite(s): MUS 12
Co-requisite(s): MUS 15 and MUS 22, MUS 32 or MUS 42
Transfer Status: CSU/UC 51 hours Lecture
This course incorporates the concepts from Music Theory II. In addition, through writing and analysis, the course will include: introduction to chromatic harmony; secondary/applied chords; modulation; borrowed chords; introduction to Neapolitan and augmented-sixth chords. (C-ID MUS 140).

MUS 15 - Musicianship III **1 Unit(s)**
Prerequisite(s): MUS 13
Co-requisite(s): MUS 14 and MUS 22, MUS 32 or MUS 42
Transfer Status: CSU/UC 51 hours Lab
This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory III through ear training, sight singing, analysis, and dictation. (C-ID MUS 145).

MUS 16 - Music Theory IV **3 Unit(s)**
Prerequisite(s): MUS 14
Co-requisite(s): MUS 17 and MUS 23, MUS 33 or MUS 43
Transfer Status: CSU/UC 51 hours Lecture
This course incorporates the concepts from Music Theory III. In addition, through writing and analysis, the course will include: post-Romantic techniques such as borrowed chords and modal mixture, chromatic mediants, Neapolitan and augmented sixth chords, 9th, 11th, and 13th chords, altered chords and dominants; and 20th century techniques such as: Impressionism, tone rows, pandiatonicism and polytonalism, meter and rhythm. (C-ID MUS 150).

MUS 17 - Musicianship IV **1 Unit(s)**
Prerequisite(s): MUS 15
Co-requisite(s): MUS 16 and MUS 23, MUS 33 or MUS 43
Transfer Status: CSU/UC 51 hours Lab
This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory IV through ear training, sight singing, analysis, and dictation. (C-ID MUS 155).

MUS 20 - Guitar I **1 Unit(s)**
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for the guitar. The focus of the course is on fundamentals: reading music, posture, hand position, fingering, rhythm, chord structure and progressions, and performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors. (C-ID MUS 160).

MUS 21 - Guitar II **1 Unit(s)**
Prerequisite(s): MUS 20
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for the guitar at an intermediate level. The focus of the course remains on fundamentals: reading music, posture, hand position, fingering, rhythm, chord structure and progressions, and performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors. (C-ID MUS 160).

MUS 22 - Guitar III **1 Unit(s)**
Prerequisite(s): MUS 21
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for the guitar at an advanced intermediate level. The focus of the course is on building technique and repertoire. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors. (C-ID MUS 160).

MUS 23 - Guitar IV **1 Unit(s)**
Prerequisite(s): MUS 22
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for the guitar at an advanced level. The focus of the course continues to be on building technique and performance confidence and adding repertoire. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors. (C-ID MUS 160).

MUS 30 - Voice I **1 Unit(s)**
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for voice. The focus of the course is on fundamentals: reading music, posture, rhythm, breath control, and performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors. (C-ID MUS 160).

MUS 31 - Voice II **1 Unit(s)**
Prerequisite(s): MUS 30
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for voice at an intermediate level. The focus of the course is on fundamentals: reading music, posture, breath control, repertoire and performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors. (C-ID MUS 160).

MUS 32 - Voice III **1 Unit(s)**
Prerequisite(s): MUS 31
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for voice at an advanced intermediate level. The focus of the course is on development of technique and repertoire. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors. (C-ID MUS 160).

MUS 33 - Voice IV **1 Unit(s)**
Prerequisite(s): MUS 32
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for voice at an advanced level. The focus of the course is on continuing development of vocal technique and repertoire building. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors. (C-ID MUS 160).

MUS 40 - Piano I **1 Unit(s)**
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for the piano. The focus of the course is on fundamentals: reading music, posture, hand position, fingering, rhythm, chord structure and progressions, and performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors.

MUS 41 - Piano II **1 Unit(s)**
Prerequisite(s): MUS 40
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for the piano at an intermediate level. The focus of the course is on fundamentals: reading music, posture, hand position, fingering, rhythm, chord structure and progressions, and performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors. (C-ID MUS 160).

MUS 42 - Piano III **1 Unit(s)**
Prerequisite(s): MUS 41
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for the piano at an advanced intermediate level. The focus is on advanced intermediate piano techniques, more compositional processes, ensemble playing and accompanying. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors.

MUS 43 - Piano IV **1 Unit(s)**
Prerequisite(s): MUS 42
Transfer Status: CSU/UC 8.5 hours Lecture / 25.5 hours Lab
This course consists of individualized study of the appropriate techniques and repertoire for the piano at an advanced level. The focus is on advanced piano techniques, more compositional processes, ensemble playing and accompanying. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is primarily intended for music majors.

MUS 51 - Computer Literacy for Musicians **1.5 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 34 hours Lab
This course is a study of the operation of computers and basic practices for their use in music composition. Emphasis is placed on computer music applications including sequencing, notation, and sound design. The course focuses on entry-level details in system and music file management, music recording and creation, and the practical software applications used in the music field.

MUS 52 - Introduction to Recording Techniques **3 Unit(s)**
Transfer Status: CSU 25.5 hours Lecture / 76.5 hours Lab
This course will instruct students in the fundamentals of studio recording techniques. Students will study elements of sound, signal flow, microphone techniques, digital recording and mixing consoles.

MUS 53 - Introduction to Recording Software Applications **3 Unit(s)**
Prerequisite(s): MUS 51
Transfer Status: CSU 25.5 hours Lecture / 76.5 hours Lab
This course is an introduction to audio recording software applications, such as Apple Logic Pro and Avid Pro Tools, as well as other industry standard recording softwares. Students will learn to record, edit, mix, and export audio recordings in these software applications.

MUS 54 - Studio Recording I **4 Unit(s)**
Prerequisite(s): MUS 51 and MUS 52
Transfer Status: CSU 17 hours Lecture / 153 hours Lab
This is a hands-on, project-based course in which students will apply learned methods and skills to a studio recording session. Students will set up and record professional quality live music sessions. Students will learn proper microphone technique and post-production mixing techniques. This course will also cover setting up and managing Musical Instrument Digital Interface (MIDI) recording equipment. Course will also cover copyright rules and the ethics of music ownership rights.

MUS 55 - Studio Recording II **4 Unit(s)**
Prerequisite(s): MUS 54
Transfer Status: CSU 17 hours Lecture / 153 hours Lab
This is a project-based course in which students will learn and apply advanced methods and skills to studio recording sessions and song production. Students will schedule, organize and produce recording sessions with musical artists. This course will provide training in advanced microphone placement and mixing techniques. This course will also cover studio etiquette, copyright and ethics of music ownership rights.

MUS 60 - Performance Ensemble **1 Unit(s)**
Transfer Status: CSU/UC 51 hours Lab
This course is for the study, rehearsal, and public performance of literature appropriate to the ensemble, with an emphasis on the development of skills needed to perform within an ensemble. Different literature will be studied each semester. Choice of ensemble is based on each student's identified major instrument or voice. This course may be repeated three times as required for completion of the AA-T in Music. (C-ID MUS 180).

MUS 70 - Choir **1 Unit(s)**
Transfer Status: CSU 51 hours Lab
This course is for the study, rehearsal, and public performance of literature appropriate to the ensemble, with an emphasis on the development of skills needed to perform within a large ensemble. Different literature will be studied each semester. Choice of ensemble is based on each student's identified voice. This course may be repeated three times as required for completion of the AA-T in Music (C-ID MUS 180). Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated three times.

MUS 95 - Special Studies-MUS **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

MUS 99 - Work Experience-MUS **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Natural Resources (NR)

NR 12 - Dendrology/Native Plant Identification **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is the study of botanical characteristics, taxonomy, physiology, and community relationships of the major trees and shrubs in the Western United States. Discussion of commercial uses and geographic ranges of these plants. Graded Only.

NR 20 - Introduction to Forestry and Natural Resources **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an introduction to the integrated management of natural resources including trees, soil, water, fish, and wildlife for the production of wood and fiber products. The emphasis will be on both the traditional and emerging uses of the forest resource to satisfy human needs and the consequent protection of the public trust. Basic biological and ecological processes will be introduced along with discussion of the scientific method and preparing reports.

NR 26 - Environmental World **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an interdisciplinary study of the world environment with a focus on human use and protection of natural resources across ethnic and cultural boundaries. Environmental issues involving the exploitation and conservation of natural resources will be studied for their modern as well as historical, political, economic and social implications. Particular attention is paid to the condition of natural resources, including soil, water, forest, mineral, plant and animal life throughout California. The citizen's role in natural resource conservation is stressed throughout the course. Graded Only.

NR 28 - Environmental Management **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an introduction to the conservation and management of natural resources. Students will learn about the diverse agencies that manage our resources along with their history and philosophies. The major natural resources including water, air, energy, forests, wildlife, agriculture, and soils will be covered and students will learn about the environmental policy and laws that govern use of these resources. An emphasis is placed on the practical components of Environmental Science as it relates to social and economic aspects of conservation.

NR 40 - Watershed Ecology and Habitat Restoration **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the methods, techniques, and tools used to restore and enhance watershed health. Topics will include reforestation techniques, hydrologic cycle, disturbance mitigation, and use of native plants for biofiltration. The course emphasizes local water issues and restoration efforts.

NR 55 - Wildlife Management **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
The course is a study of plant and animal ecology in relation to principles of wildlife management with an emphasis on identification, sexing and aging criteria, wildlife population dynamics, wildlife habitat, and a review of trapping and marking techniques.

NR 60 - Natural Resources Law **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course introduces students to federal and state laws and regulations pertaining to the management and protection of natural resources. Topics include the history and development of environmental law including Air and Water Quality Acts, National Environmental Policy Act, and Endangered Species Act. Graded Only.

NR 65 - Recreational Land Management **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the techniques, issues and laws pertaining to recreational land management. Topics include types of recreational activities, evaluation of site resources, maintainance and operation of outdoor recreational facilities. Analyses of social and economic factors that affect participation in recreational activities will be included.

NR 70 - Geospatial Data Applications **2 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 51 hours Lab
This course is an introduction to applied Geographical Information Systems (GIS) and provides the knowledge and practical experience necessary to develop skills in the acquisition of Global Positioning System's (GPS) data and its application to (GIS) for presentation and use in precision agriculture, field biology/botany, natural resources and park-land management, as well as heavy equipment operation. No previous GIS experience is assumed.

NR 97 - Special Problems-NR **1 - 3 Unit(s)**
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

NR 99 - Work Experience-NR **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Nursing (NSG)

NSG 18 - Fundamentals of Nursing **3 Unit(s)**
Prerequisite(s): Admission to Vocational Nursing Program
Co-requisite(s): NSG 21, NSG 22, NSG 23, NSG 24 and NSG 28
Transfer Status: CSU 51 hours Lecture
This course focuses on the client-centered study of fundamental nursing concepts applicable to all clinical areas in vocational nursing. Graded Only.

NSG 21 - Clinical Nursing I **7 Unit(s)**
Prerequisite(s): Admission to Vocational Nursing Program
Co-requisite(s): NSG 18, NSG 22, NSG 23, NSG 24 and NSG 28
Transfer Status: CSU 357 hours Lab
In this course students apply fundamental nursing skills and provide client care for adults. The course provides the opportunity to apply didactic information from concurrent nursing courses to the clinical setting. Pass/No Pass Only.

NSG 22 - Gerontology Nursing **1 Unit(s)**
Prerequisite(s): Admission to Vocational Nursing Program
Co-requisite(s): NSG 18, NSG 21, NSG 23, NSG 24 and NSG 28
Transfer Status: CSU 17 hours Lecture
This course introduces the vocational nursing student to the facts and myths of the older population, common conditions and diseases, assistive and restorative resources, and the older person's physiological and psychological responses to illness and medication. Included in the unit is the normal physiological and psychological aging process as well as information supportive of positive and healthy aging. Graded Only.

NSG 23 - Pharmacology Nursing **3 Unit(s)**
Prerequisite(s): Admission to Vocational Nursing Program
Co-requisite(s): NSG 18, NSG 21, NSG 22, NSG 24 and NSG 28
Transfer Status: CSU 51 hours Lecture
This course covers basic applied pharmacology and major drug groups. Students will learn computation of drug dosages and safe and correct administration of medications. Emphasis will be placed on drug action, pharmacokinetics, adverse drug effects, side effects of drug therapy and nursing process related to drug groups. The course will be closely correlated to concurrent medical-surgical theory and clinical experiences. Graded Only.

NSG 24 - Musculoskeletal Nursing **1 Unit(s)**
Prerequisite(s): Admission to Vocational Nursing Program
Co-requisite(s): NSG 18, NSG 21, NSG 22, NSG 23 and NSG 28
Transfer Status: CSU 17 hours Lecture
This course provides a foundation in the study of nursing process, basic physiology and pathophysiology related to adult clients experiencing disorders of the musculoskeletal system. Graded Only.

NSG 28 - Role Development **1 Unit(s)**
Prerequisite(s): Admission to Vocational Nursing Program
Co-requisite(s): NSG 18, NSG 21, NSG 22, NSG 23 and NSG 24
Transfer Status: CSU 17 hours Lecture
This course focuses on developing therapeutic communication skills in all aspects of nursing care. Nursing process as it applies to interpersonal communication and personality development theory will be integrated throughout course. Graded Only.

NSG 31 - Clinical Nursing II **7 Unit(s)**
Prerequisite(s): NSG 18, NSG 21, NSG 22, NSG 23, NSG 24 and NSG 28
Co-requisite(s): NSG 32, NSG 35, NSG 36 and NSG 37
Transfer Status: CSU 357 hours Lab
This course further develops skills developed during Clinical Nursing I and prepares students to provide care for hospitalized patients. Focus is on adult Medical-Surgical nursing as related to concurrent nursing units. Care for the perioperative patient is emphasized. Pass/No Pass Only.

NSG 32 - Perioperative Nursing and Client Education **2 Unit(s)**
Prerequisite(s): NSG 18, NSG 21, NSG 22, NSG 23, NSG 24 and NSG 28
Co-requisite(s): NSG 31, NSG 35, NSG 36, NSG 37
Transfer Status: CSU 34 hours Lecture
This course provides an introduction to nursing care related to clients in the preoperative, intraoperative and postoperative phases of surgical care. Included is a focused study of the teaching needs of clients and families in perioperative settings. Development of client education skills, awareness of barriers to client learning, and a review of adult learning styles is included. Medications used during each phase of the perioperative process is addressed. Graded Only.

NSG 35 - Cardiovascular and Respiratory Nursing **3 Unit(s)**
Prerequisite(s): NSG 18, NSG 21, NSG 22, NSG 23, NSG 24 and NSG 28
Co-requisite(s): NSG 31, NSG 32, NSG 36 and NSG 37
Transfer Status: CSU 51 hours Lecture
This course introduces students to the nursing process related to adult clients experiencing disorders of the respiratory, cardiovascular, hematologic, and immune systems. Pathophysiology and medical treatment of diseases of the respiratory, cardiovascular, and immune systems are addressed. Graded Only.

NSG 36 - Gastrointestinal and Renal/Urinary Nursing **2 Unit(s)**
Prerequisite(s): NSG 18, NSG 21, NSG 22, NSG 23, NSG 24 and NSG 28
Co-requisite(s): NSG 31, NSG 32, NSG 35 and NSG 37
Transfer Status: CSU 34 hours Lecture
This course provides the student with the tools to use critical thinking skills in application of knowledge in the pathophysiology and nursing care of clients with disorders of the gastrointestinal and renal/urinary systems. Emphasis will be placed on individualized care and teaching of the client and family will focus on biophysical and rehabilitation needs, as well as cultural and psychosocial influences. A brief review of medications appropriate to each disease process will be integrated into the lecture. Graded Only.

NSG 37 - Endocrine Disorders **2 Unit(s)**
Prerequisite(s): NSG 18, NSG 21, NSG 22, NSG 23, NSG 24 and NSG 28
Co-requisite(s): NSG 31, NSG 32, NSG 35 and NSG 36
Transfer Status: CSU 34 hours Lecture
This course covers basic nursing process, basic physiology, pathophysiology, medical care, complications, and nursing care related to clients experiencing disorders of the endocrine system. Graded Only.

NSG 41 - Clinical Nursing III **7 Unit(s)**
Prerequisite(s): NSG 31, NSG 32, NSG 35, NSG 36 and NSG 37
Co-requisite(s): NSG 42, NSG 43, NSG 44, NSG 47 and NSG 49
Transfer Status: CSU 357 hours Lab
This course is a continuation of hospital clinical experience with a concentration on adult Medical-Surgical Nursing. Pass/No Pass Only.

NSG 42 - Maternal Child Nursing **2 Unit(s)**
Prerequisite(s): NSG 31, NSG 32, NSG 35, NSG 36 and NSG 37
Co-requisite(s): NSG 41, NSG 43, NSG 44, NSG 47 and NSG 49
Transfer Status: CSU 34 hours Lecture
This course provides a foundation in the study of maternal-child care. Maternal-child nursing presents family centered care throughout the perinatal period and continues with the study of family centered care of children from infancy through adolescence. Included are disorders of the reproductive system. Graded Only.

NSG 43 - Neurological and Rehabilitation Nursing **2 Unit(s)**
Prerequisite(s): NSG 31, NSG 32, NSG 35, NSG 36 and NSG 37
Co-requisite(s): NSG 41, NSG 42, NSG 44, NSG 47 and NSG 49
Transfer Status: CSU 34 hours Lecture
This course provides a foundation in the study of nursing care and basic physiology and pathophysiology related to clients experiencing disorders of the nervous system. Emphasis is on client, family, and group centered care. This course also addresses biophysical, psychosocial, cultural, and rehabilitation needs of adult clients. Students are introduced to principles and strategies for the promotion of wellness. Graded Only.

NSG 44 - Psych/Mental Health Nursing **2 Unit(s)**
Prerequisite(s): NSG 31, NSG 32, NSG 35, NSG 36 and NSG 37
Co-requisite(s): NSG 41, NSG 42, NSG 43, NSG 47 and NSG 49
Transfer Status: CSU 34 hours Lecture
This course is an exploration of the psychology of maladaptive behavior and students are introduced to principles and strategies for the promotion of wellness. Graded Only.

NSG 47 - Oncology Nursing **2 Unit(s)**
Prerequisite(s): NSG 31, NSG 32, NSG 35, NSG 36 and NSG 37
Co-requisite(s): NSG 41, NSG 42, NSG 43 and NSG 49
Transfer Status: CSU 34 hours Lecture
This course provides a foundation in the study of oncology nursing care including an introduction to oncology, prevention, detection and medical treatment. Content includes loss, grief, and death and dying. Graded Only.

NSG 49 - Role Development and Vocational Relations/ Leadership **2 Unit(s)**
Prerequisite(s): NSG 31, NSG 32, NSG 35, NSG 36 and NSG 37
Co-requisite(s): NSG 41, NSG 42, NSG 43, NSG 44 and NSG 47
Transfer Status: CSU 34 hours Lecture
This course provides an overview of the role of a nurse manager/supervisor and leader in a structured setting. The focus is on the development of the basic skills that facilitate the management process. Career opportunities, employer/employee relationships and responsibilities, as well as professional expectations are explored. This course will also provide an overview of nursing history, theory, legal and ethical concerns, and scope of practice of the LVN. Graded Only.

NSG 50 - Principles of I.V. Therapy and Blood Withdrawal **2 Unit(s)**
Prerequisite(s): Graduate Vocational Nurse or Licensed Vocational Nurse
Transfer Status: CSU 29 hours Lecture / 9 hours Lab
This course provides the Licensed Vocational Nurse (LVN) with state certification in intravenous (IV) therapy and blood withdrawal. The theory related to legal responsibilities, infection control, fluid and electrolytes, composition of parenteral solutions, technique for venipuncture, equipment and transfusion therapy are presented based on state guidelines. Hands on experience is provided during lab time with IV and blood withdrawal equipment and simulation arm models. The student will be required to complete three venipunctures and blood withdrawals on clients in a clinic setting, as per state requirements. This course provides 36 hours of continuing education for the LVN.

NSG 54 - Foundations of Practice **3 Unit(s)**
Prerequisite(s): Admission to Associate Degree Nursing Program
Co-requisite(s): NSG 55, NSG 56
Transfer Status: CSU 51 hours Lecture
This course utilizes the conceptual framework of the nursing curriculum to provide the foundation for nursing practice. Common threads integrated throughout the program are nursing process, nutrition, medication administration, cultural diversity, communication and professional roles. Topics include an introduction to nursing care, legal and ethical aspects, therapeutic communication, and concepts underlying current professional practice. This course provides a foundation to prepare the student to use critical thinking and the nursing process in providing direct patient care. Graded Only.

NSG 55 - Medical Surgical Nursing I **4 Unit(s)**
Prerequisite(s): Admission to Associate Degree Nursing Program
Co-requisite(s): NSG 54, NSG 56
Transfer Status: CSU 68 hours Lecture
This course examines the pathophysiological foundations of health and disease and introduces the role of the nursing process in the maintenance, restoration and promotion of health. Emphasis is placed on developing familiarity with the role of the professional nurse: gathering information, formulating nursing diagnoses, planning interventions, implementation or care, medication administration, and evaluation of outcomes. Graded Only.

NSG 56 - Clinical Nursing I **5 Unit(s)**
Prerequisite(s): Admission to Associate Degree Nursing Program
Co-requisite(s): NSG 54, NSG 55
Transfer Status: CSU 272 hours Lab
This course applies theory from Foundations of Practice and Medical Surgical Nursing I to the hospitalized client utilizing simulated skills lab and clinical experiences in hospitals to provide services to adult clients. Emphasis will be placed upon the role of the registered nurse in delivery of basic bedside care, medication administration, and applying the nursing process to delivery of safe care. Pass/No Pass Only.

NSG 60 - Maternity Nursing **2 Unit(s)**
Prerequisite(s): NSG 54, NSG 55, NSG 56
Co-requisite(s): NSG 62, NSG 63, NSG 66
Transfer Status: CSU 34 hours Lecture
This course prepares the Associate Degree Nursing student to care for clients in the maternity setting. The focus is on family centered maternity nursing beginning in the prenatal period through the care of the family in the postpartum period and care of the newborn. Using a nursing process approach, study includes normal and high risk maternal care and normal and high risk infant care. In addition, content related to the male and female reproductive system is addressed. Graded Only.

NSG 61 - Pharmacology **2 Unit(s)**
Prerequisite(s): Admission to ADN Program
Co-requisite(s): NSG 67, NSG 68, NSG 69
Transfer Status: CSU 34 hours Lecture
This course is a study of the fundamental concepts of pharmacology, with a focus on pharmacokinetics, pharmacodynamics, and related nursing implications for the major drug classes. Nursing process and cultural implications will be discussed for the basic drug classifications. Graded Only.

NSG 62 - Medical-Surgical Nursing II **4 Unit(s)**
Prerequisite(s): NSG 54, NSG 55, NSG 56
Co-requisite(s): NSG 60, NSG 63, NSG 66
Transfer Status: CSU 68 hours Lecture
This course explores concepts and challenges in client management in acute and chronic illness. Topics include perioperative care, fluid and electrolyte balance and disturbances, parenteral therapy, oncology, and diabetes. Focus is on the care of clients with acute and chronic problems, and client education. Graded Only.

NSG 63 - Pediatric Nursing **2 Unit(s)**
Prerequisite(s): NSG 54, NSG 55, NSG 56
Co-requisite(s): NSG 60, NSG 62, NSG 66
Transfer Status: CSU 34 hours Lecture
This course prepares the Associate Degree Nursing student to care for clients in the pediatric setting. The focus is on family centered pediatric nursing beginning in the newborn period through the care of the adolescent child. Using the nursing process approach, the course will include normal and high risk newborn and infant care, normal child health care, and acute pediatric care. In addition, content related to the child at risk will be addressed.

NSG 64 - Transition to ADN Nursing I **1 Unit(s)**
Prerequisite(s): Currently licensed as a Licensed Vocational Nurse
Transfer Status: CSU 17 hours Lecture
This course assists the LVN in acquiring nursing skills and processes necessary for functioning in the second year of an associate degree-nursing program. The course introduces the philosophy and conceptual framework of the program and the roles of the registered nurse as a care provider. The course content will focus on competencies expected of the graduate ADN, communication and critical thinking skills, legal and ethical role, RN role development, math computations in dimensional analysis format and nursing assessment and documentation. Graded Only.

NSG 65 - Transition to ADN Nursing II **3 Unit(s)**
Prerequisite(s): Currently licensed as a Licensed Vocational Nurse
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course builds on the knowledge and skills acquired in NSG 64. The course expands the student's understanding of the registered nurse's role as part of the health care team. Course content emphasizes medical/surgical knowledge, competencies and skills essential for successful performance in the second year of the ADN program. Clinical application of the registered nurse's role will be incorporated within the simulation environment. Graded Only.

NSG 66 - Clinical Nursing II **5 Unit(s)**
Prerequisite(s): NSG 54, NSG 55, NSG 56
Co-requisite(s): NSG 60, NSG 62, NSG 63
Transfer Status: CSU 272 hours Lab
This course provides directed clinical experiences in acute hospitals and agencies that provide services for maternity, pediatric, perioperative and medical/surgical clients. Through the use of the nursing process, the student will provide care, teaching, support, and rehabilitation to for maternity, pediatric, perioperative and medical/surgical clients. Emphasis will be upon the role of the registered nurse in caring for clients with acute and chronic problems, prevention of complications related to maternity, pediatric, perioperative and medical/surgical clients, and client education. Pass/No Pass Only.

NSG 67 - Complex Medical/Surgical Nursing III **4 Unit(s)**
Prerequisite(s): Admission to ADN Program
Co-requisite(s): NSG 61, NSG 68, NSG 69
Transfer Status: CSU 68 hours Lecture
This course addresses the nursing of adult and geriatric clients with acute and chronic illnesses. Students study common chronic and acute illnesses, adaptation to, and acute episodes of these illnesses in the acute hospital setting. Physical assessment of the adult, normal development and physiology, nutrition, pharmacology, sexuality, cultural factors, and prevention and early detection measures appropriate to the various nursing problems are discussed. Nursing process to promote adaptation is stressed throughout the course. Graded Only.

NSG 68 - Clinical Nursing III **5 Unit(s)**
Prerequisite(s): Admission to ADN Program
Co-requisite(s): NSG 61, NSG 67, NSG 69
Transfer Status: CSU 272 hours Lab
This course provides students with directed clinical experiences in hospitals, community health agencies and agencies that provide services to the acutely ill adult, to the elderly or those having disabilities/chronic conditions. Through the use of the nursing process, the student will provide care, teaching, support, and rehabilitation to individuals who have acute or chronic illness, disabilities, or are elderly in the hospital or in the community. Emphasis will be upon the role of the registered nurse to promote illness prevention, community health, and positive aging and client independence. Pass/No Pass Only.

NSG 69 - Gerontology/Community Based Nursing **2 Unit(s)**
Prerequisite(s): Admission to ADN Program
Co-requisite(s): NSG 61, NSG 67, NSG 68
Transfer Status: CSU 34 hours Lecture
This course focuses on the needs of the older adults and the disabled/chronically ill older adult in the community, home health, and dementia care settings. Course content builds on the student's knowledge of the aging process by the study of dynamics, etiology, and treatment of the rapidly growing aging population. Emphasis is placed on assisting client adaptation to normal age-related changes and chronic aging conditions as well as healthy/robust aging practices. Course content includes geriatric nursing, management of chronic illness, and healthy aging. The nursing process is utilized to assist the student in the planning of goal directed care for this client population.

NSG 74 - Associate Degree Nursing Capstone **2 Unit(s)**
Prerequisite(s): NSG 61, NSG 67, NSG 68, NSG 69
Co-requisite(s): NSG 77, NSG 78, NSG 79
Transfer Status: CSU 34 hours Lecture
This course provides an opportunity for students enrolled in the Associate Degree Nursing (ADN) program to develop skills in leading and managing patient care and prepare for passage of the licensure examination. Content includes presentation of the registered nurse's role in planning, organizing, staffing and directing safe patient-centered care. Professional and social issues in leadership and management will also be discussed. Graded Only.

NSG 77 - Complex Medical/Surgical Nursing IV **4 Unit(s)**
Prerequisite(s): NSG 61, NSG 67, NSG 68, NSG 69
Co-requisite(s): NSG 74, NSG 78, NSG 79
Transfer Status: CSU 68 hours Lecture
This course covers the nursing care of adult clients with high risk, complex, and critical health care problems and adaptation to these problems. Students will study the nursing process related to the care of patients with multiple system disorders, unstable medical conditions, and critical health care disorders. This course is a continuation of topics addressed in NSG 67 and emphasizes pathophysiology, complex issues in nursing process and professional and advocacy nursing roles. Graded Only.

NSG 78 - Clinical Nursing IV **5 Unit(s)**
Prerequisite(s): NSG 61, NSG 67, NSG 68, NSG 69
Co-requisite(s): NSG 74, NSG 77, NSG 79
Transfer Status: CSU 272 hours Lab
This course is an exploration of the various preventive and treatment methods used within interdisciplinary settings for persons experiencing various psychosocial/development disorders. Observation and participation in a variety of community mental health settings allows the student to use the theory in supervised practice. In addition, students will utilize the nursing process to generate nursing decisions in providing care in the hospital setting for adult clients with multiple system disorders, unstable medical conditions, and critical health care disorders. Pass/No Pass Only.

NSG 79 - Mental Health/Psychiatric Nursing **2 Unit(s)**
Prerequisite(s): NSG 61, NSG 67, NSG 68, NSG 69
Co-requisite(s): NSG 74, NSG 77, NSG 78
Transfer Status: CSU 34 hours Lecture
This course is designed to enable the student to acquire knowledge and skills in the systematic observation of patients with psychopathologic syndromes and developmental disabilities. Students will also increase their general knowledge of the dynamics, etiology, and treatment of psychopathology. Emphasis is placed on further development of the nurse's therapeutic self, and the utilization of the nursing process. This course is specifically directed toward the identification of nursing care goals, approaches, and interventions which are applicable to any patient experiencing psychological distress. Graded Only.

NSG 88 - Med/Surg III (30 Unit Option) **2 Unit(s)**
Prerequisite(s): Admission to ADN Program, NSG 64
Co-requisite(s): NSG 61, NSG 68, NSG 69
Transfer Status: CSU 34 hours Lecture
This course is designed for students receiving a 30 Unit option ONLY. The 30 Unit option is a certificate only and will not receive a degree. Approval for taking this course is made with the Nursing Department Chair. This course addresses the nursing of adult and geriatric clients with acute and chronic illnesses. Students study common chronic and acute illnesses, adaptation to, and acute episodes of these illnesses in the acute hospital setting. Physical assessment of the adult, normal development and physiology, nutrition, pharmacology, sexuality, cultural factors, and prevention and early detection measures appropriate to the various nursing problems are discussed. Nursing process to promote adaptation is stressed throughout the course. Graded Only.

NSG 89 - Med/Surg IV (30 Unit Option) **2 Unit(s)**
Prerequisite(s): NSG 61, NSG 68, NSG 69, NSG 88
Co-requisite(s): NSG 74, NSG 78, NSG 79
Transfer Status: CSU 34 hours Lecture
This course is designed for students receiving a 30 Unit option ONLY. The 30 Unit option is a certificate only and will not receive a degree. Approval for taking this course is made with the Nursing Department Chair. This course covers the nursing care of adult clients with high risk, complex, and critical health care problems and adaptation to these problems is addressed. Students will study the nursing process related to the care of patients with multiple system disorders, unstable medical conditions, and critical health care disorders. This course is a continuation of topics addressed in NSG 88 and emphasizes pathophysiology, complex issues in nursing process and professional and advocacy nursing roles. Graded Only.

NSG 97 - Special Problems-NSG **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

NSG 99 - Work Experience-NSG **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

NSG 100 - CNA Basic Nursing Care, Theory **3.5 Unit(s)**
Prerequisite(s): Admission to Nursing Assistant Program
Co-requisite(s): NSG 101
Transfer Status: NT 66 hours Lecture
This course covers the Certified Nurse's Aide (CNA) theory of care in long term settings. The major focus is patient care skills, patient care procedures, and how to respond to individuals and occurrences associated with long term care. Additional content in the course presents the role and responsibilities of the certified nursing assistant, basic principles of asepsis, safety, nutrition and rehabilitation. Successful completion of this course and NSG 101 qualifies the student to take the Written and Manual Skills testing for State Certification. Graded Only.

NSG 101 - CNA Basic Nursing Care, Clinical **3 Unit(s)**
Prerequisite(s): Admission to the Nursing Assistant Program
Co-requisite(s): NSG 100
Transfer Status: NT 153 hours Lab
This course provides the necessary laboratory and clinical experience for development of skills and competencies in basic nursing for a Certified Nurse's Aide (CNA). Successful completion provides the required laboratory/clinical experience necessary to qualify for the Written and Manual Skills testing for State Certification. Pass/No Pass Only.

NSG 102 - CNA Acute Care **4 Unit(s)**
Prerequisite(s): NSG 100, NSG 101 or a Current CNA License
Transfer Status: NT 51 hours Lecture / 68 hours Lab
This course provides the Certified Nurse Aide (CNA) the knowledge and skills needed to function in an acute care setting. Topics include Scope of Practice guidelines, effective communication, and proper procedures for care of patients with a variety of conditions in the acute care setting. Students will learn about common acute and chronic conditions that require hospitalization and surgical procedures that patients undergo in the acute care setting. Graded Only.

NSG 103 - Home Health Aide for the CNA **1.5 Unit(s)**
Prerequisite(s): NSG 100, NSG 101 or a Current CNA License
Transfer Status: NT 22 hours Lecture / 22 hours Lab
This course provides the theory and laboratory experiences required for state-Certified Nursing Assistants to become eligible for Home Health Aide certification. Content includes: orientation to home health care, personal care of clients including medical and social needs; nutrition, safety and cleanliness in the home. Graded Only.

Occupational and Life Skills (OLS)

OLS 323 - Occupational and Academic Assessment **0 Unit(s)**
Transfer Status: NT 80 hours Lab
The focus of this course is to assess individual abilities, determine avenues of interest, identify vocational and academic goals, validate academic skill levels, and establish a student vocational contract. Topics include vocational aptitude, learning styles, decision making, and personal values. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 324 - Workplace Communication **0 Unit(s)**
Transfer Status: NT 85 hours Lab
This course provides training for students in the areas of workplace culture and environment. Topics include interpersonal skills development, professional conduct, workplace communication, safety, and problem-solving job readiness skills. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 325 - Literacy for Career Building **0 Unit(s)**
Transfer Status: NT 85 hours Lab
Vocational and academic language skills development for students seeking employment. Strategies for pre-writing, organization of text, and comprehension skills are emphasized to prepare job applications, cover letters, resumes, and business specific literature. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 326 - Mathematics within Industry **0 Unit(s)**
Transfer Status: NT 85 hours Lab
This course prepares students for mathematical concepts encountered in various trades. These concepts include, but are not limited to, money skills, measurements, temperatures, computing taxes, decimals, and estimating dollar amounts and volume of materials needed to complete a task. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 327 - Career Exploration **0 Unit(s)**
Prerequisite(s): OLS 325, OLS 326
Transfer Status: NT 51 hours Lab
In this course students develop career exploration skills that will help them select an occupational training experience in OLS 329. Emphasis is placed on one of the occupational certifications in carpentry, customer service, food service, greenhouse operations, hospitality, irrigation, retail sales, small engine repair, and warehousing. Activities include career planning, accessing computerized information systems for job searches, career decision making, and goal setting. Career and labor market resources and job information are presented. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 328 - Strategies for Employment **0 Unit(s)**
Prerequisite(s): OLS 325, OLS 326
Transfer Status: NT 51 hours Lab
This course introduces students to a variety of strategies to help them to be more successful in the workplace. These strategies include, but are not limited to, preparation for interviews and follow up, time management, task organization, job search, development of job leads, and memorization. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 329 - Occupational Certification Workshop **0 Unit(s)**
Prerequisite(s): OLS 327, OLS 328
Transfer Status: NT 51 hours Lab
This course provides certification in an area of study selected by the student for the purpose of preparing to obtain employment in one of the following topic areas: customer service, food service, greenhouse and nursery operations, hospitality, irrigation, retail sales, small engine repair, and warehousing. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 330 - Experiential Vocational Training **0 Unit(s)**
Prerequisite(s): OLS 324, OLS 329
Transfer Status: NT 100 hours Lab
In this course students apply the life skills learned in the Occupational and Life Skills program and the occupation specific skills learned in OLS 329, in either a paid or non-paid position within a for profit or nonprofit business. Students are required to work 100 hours in a paid or non-paid position to fulfill the requirements for the Occupational and Life Skills Certificate. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 350 - Product Assembly/Light Manufacturing **0 Unit(s)**
Transfer Status: NT 510 hours Lab
This course is designed to support the educational needs of those seeking employment in the light manufacturing/product assembly industry. Topics include light manufacturing tasks such as product assembly, packaging, shipping, and the basics of order fulfillment. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 351 - Industrial Woodworking **0 Unit(s)**
Transfer Status: NT 510 hours Lab
In a wood shop environment, students with disabilities will learn to use a variety of power and hand tools associated with the trade. The focus of the course includes the following areas of study: quality assurance, type and amount of project materials needed, and wood product construction and finishing techniques. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 352 - Janitorial Services **0 Unit(s)**
Transfer Status: NT 510 hours Lab
This course provides training in cleaning services for those seeking employment in the janitorial industry. Organization of tasks, proper techniques, equipment and eco-friendly cleaning solutions are emphasized. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 353 - Landscaping Services **0 Unit(s)**
Transfer Status: NT 510 hours Lab
This course trains students in the basic procedures and techniques of landscaping. Topics include lawn and yard care techniques, equipment maintenance, safety, good work habits, customer service skills, and landscape installation. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 354 - Commercial Sewing **0 Unit(s)**
Transfer Status: NT 510 hours Lab
This course prepares students for employment in the industrial sewing business. Instruction consists of the basics of sewing and more intricate procedures such as piping, applying bias tape, adding button holes, and inserting elastic. Students will work with various types of machines used within the industry. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

OLS 355 - Recycling Services **0 Unit(s)**
Transfer Status: NT 510 hours Lab
This course prepares students for employment in the recycling industry. Basic procedures for processing recyclable materials are emphasized. Topics include safety, learning to operate the horizontal and vertical balers, glass crusher, pallet jack, barrel dolly, and computerized weighing scales. Unlimited repeats. Satisfactory/Unsatisfactory Only. Open Entry/Open Exit.

Philosophy (PHIL)

PHIL 2 - Introduction to Philosophy **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to the nature of philosophical thought and skills. Issues that traditionally have been of central importance in philosophical inquiry will be emphasized. These include the nature and limits of knowledge, reality, and values. (C-ID PHIL 100)

PHIL 5 - Environmental Ethics **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
An introductory course on theories of environmental ethics and how they are applied to sustainability and environmental issues. Both traditional and contemporary, Western and non-Western theories are studied to learn various outlooks on how humans should live in nature, including how we relate to the environment, the future generations and other species. The ideas and principles are then used to find solutions to the challenges we face today such as resource depletion, pollution, climate change and species extinction.

PHIL 6 - Introduction To Logic **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
A study of traditional logic with both deductive and inductive reasoning, syllogisms, and fallacies. Practical application of basic skills in orderly and accurate reasoning and communication.

PHIL 8 - Methods of Argument **3 Unit(s)**
Prerequisite(s): ENGL 2 or ENGL 3
Transfer Status: CSU/UC 51 hours Lecture
This course is a study of argumentative writing, including traditional topics in logic. The course will emphasize the application of argumentative methods and models to the analysis of contemporary moral, political, economic, and philosophical issues.

PHIL 16 - Western Religions **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a study of the origins and development of three Western religious traditions: Judaism, Christianity, and Islam. This course explores ways to study, interpret, and understand the beliefs and practices of these traditions, as well as their changes through history, and the relationship between religion and culture.

PHIL 18 - Eastern Religions **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to religious traditions of the East, including Hinduism, Buddhism, Confucianism, and Daoism, with an emphasis on philosophical perspectives expressed in historical and cultural development.

PHIL 58 - Teaching About Religion **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
An introduction to the Abrahamic religions of Judaism, Christianity, and Islam, along with the major religious traditions of India and Asia, within the context of a practical exploration of the moral, legal, and educational issues raised in teaching about religions in public schools in the United States.

PHIL 95 - Special Studies-PHIL **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Photography (PHO)

Course Families

Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or 'W') within each family group.

Photography : PHO 2, 4, 6

PHO 1 - History of Photography **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course focuses on the history of photography from its origins to current day. Students will learn about the primary artistic and stylistic movements and historical trends in photography as well as gain an understanding of key photographic technical terms. Students will also learn about the unique visual language of photographs and how to evaluate the aesthetics of photographic images.

PHO 2 - Introduction to Photography **3 Unit(s)**
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course is an introduction to the processes, principles, and tools of photography. Topics include the development of technical and aesthetic skills, elements of design and composition, camera technology (film and digital), materials and equipment, and contemporary trends in photography.

PHO 4 - Color Photography **3 Unit(s)**
Prerequisite(s): PHO 2
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to the principles of producing quality digital prints. Topics include color balance, color temperature and the psychology of color. Students will also explore the expressive and aesthetic aspects of digital color photography.

PHO 6 - Black and White Photography **3 Unit(s)**
Prerequisite(s): PHO 2
Transfer Status: CSU/UC 34 hours Lecture / 51 hours Lab
This course introduces students to the formation, construction, and presentation of gallery-ready black and white photographs. Students will make professional quality prints while they perfect their own personal style and expression. Students will use film to learn the Zone System, basic sensitometry, advanced printing techniques, and archival preservation techniques. Students will also develop advanced proficiency in the use of digital cameras, scanners and inkjet printers to produce black and white prints. Students will also study historical and contemporary photographic trends.

PHO 7 - Stock Photography **3 Unit(s)**
Prerequisite(s): PHO 2
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to stock photography. Students will learn the basics of creating and editing stock photography using studio lighting equipment, outdoor photography techniques and digital editing software to produce commercial ready stock photographs. Students will work with models, props and locations in the production of stock photos. Students will crop, edit, and digitally enhance photographs for stock photography.

PHO 8 - Commercial Photography **3 Unit(s)**
Prerequisite(s): PHO 2
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to the basic aspects of commercial photography including planning, production and editing of images for a variety of applications including industrial, medical, technical, product display, architectural, portrait, food and fashion modeling. Students will also learn to use a 4x5 digital camera and studio lighting systems to produce commercial quality photographs.

PHO 11 - Alternative Photographic Processes **3 Unit(s)**
Prerequisite(s): PHO 2
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to the fundamentals of non-silver alternative photographic processes with emphasis on technical skills, aesthetic values, and critique of photographic work. Students will learn skills related to safe chemistry usage, scanning, Photoshop manipulation of digital negatives, paper coating and contact printing techniques. Historical and contemporary trends in non-silver alternative photography will also be discussed.

PHO 14 - Introduction to Photographic Portfolios and Books **3 Unit(s)**
Prerequisite(s): PHO 4
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to the production of professional portfolios, hand bound books and digital online publications. A broad practical and contextual introduction to book design will be covered as well as advanced digital imaging techniques. Students will also learn to plan, develop and implement photographic projects with particular emphasis on conceptual thinking and the development of individual style.

PHO 15 - Introduction to Adobe Lightroom **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to digital asset management and digital image processing using Lightroom. Topics include techniques to integrate Lightroom with other software image editing software to manage, adjust, and present large volumes of digital photographs.

PHO 20 - Photoshop for Photographers **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to Adobe Photoshop for digital photograph editing, color correction, and formatting. Students will learn to manipulate color and black-and-white images, layers, special effects, photo restoration/colorizing, and filters to prepare images for print and web distribution.

PHO 95 - Special Studies-PHO **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

PHO 99 - Work Experience-PHO **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Physics (PHYS)

PHYS 10 - Concepts of Physics **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course explores physics from a conceptual rather than a mathematical approach. Topics include Newton's Laws of Motion, energy and momentum, heat and thermodynamics, electricity and magnetism, light and optics, and atomic and nuclear physics. Not intended for students who have completed high school physics or PHYS 21 or 41.

PHYS 11 - Concepts of Physics Laboratory **1 Unit(s)**
Prerequisite(s): PHYS 10 (or concurrent enrollment)
Transfer Status: CSU/UC 51 hours Lab
This course is designed to accompany the lecture topics taught in Physics 10. Experiments performed will cover the areas of motion, sound, electricity and magnetism, and light. Not recommended for physics majors.

PHYS 21 - College Physics I **4 Unit(s)**
Prerequisite(s): MATH 20 or high school trigonometry
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course is intended for students not majoring in physics or engineering but needing a one-year course in physics as a requirement for their major program. The course is part of a two-semester sequence whose contents may be offered in other sequences or combinations at articulated institutions. Topics include kinematics, dynamics, work and energy, momentum, fluids and simple harmonic motion. (C-ID PHYS 105). Graded Only.

PHYS 22 - College Physics II **4 Unit(s)**
Prerequisite(s): PHYS 21
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course is intended for students not majoring in physics or engineering but needing a one-year course in physics as a requirement for their major program. The course is the second part of a two-semester sequence beginning with PHYS 21. Core topics include: electrostatics, magnetism, DC circuits, optics and modern physics. (C-ID PHYS 110). Graded Only.

PHYS 41 - Physics for Scientists and Engineers I **4 Unit(s)**
Prerequisite(s): MATH 30
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course, intended for students majoring in physical sciences and engineering, is part of a three-semester course whose contents may be offered in other sequences or combinations. Core topics include an introduction to kinematics, dynamics, work and energy, momentum, gravitation and simple harmonic motion. It is highly recommended that students also enroll in PHYS 51. (C-ID PHYS 205). Graded Only.

PHYS 42 - Physics for Scientists and Engineers II **4 Unit(s)**
Prerequisite(s): PHYS 41, MATH 31
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course, intended for students majoring in physical sciences and engineering, is part of a three-semester course whose contents may be offered in other sequences or combinations. Core topics include electrostatics, magnetism, DC and AC circuits, and Maxwell's equations. It is highly recommended that students also enroll in PHYS 52. (C-ID PHYS 210). Graded Only.

PHYS 43 - Physics for Scientists and Engineers III **4 Unit(s)**
Prerequisite(s): PHYS 41, MATH 31
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course, intended for students majoring in physical sciences and engineering, is part of a three-semester course whose contents may be offered in other sequences or combinations. Core topics include optics and modern physics. (C-ID PHYS 43). Graded Only.

PHYS 51 - Problem Solving Strategies for PHYS 41 **0.5 Unit(s)**
Co-requisite(s): PHYS 41
Transfer Status: CSU 34 hours Lab
This course is an activity based supplement to PHYS 41 and is intended to enhance the students problem solving skills in the areas of vectors, statics, kinematics, dynamics, momentum, energy, rotational motion, oscillatory motion, and fluid mechanics. Pass/No Pass Only.

PHYS 52 - Problem Solving Strategies for PHYS 42 **0.5 Unit(s)**
Co-requisite(s): PHYS 42
Transfer Status: CSU 32 hours Lab
This course is an activity base supplement to PHYS 42 and is intended to enhance the students' problem solving skills in the areas of electric fields and potential, electric currents, electric circuits, induced currents, magnetic fields, dielectrics, alternating currents, and electromagnetic waves. Pass/No Pass Only.

PHYS 95 - Special Studies-PHYS **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Political Science (POS)

POS 2 - United States Government **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
An introduction to United States and California government and politics, including their constitutions, political institutions and processes, and political actors. Examination of political behavior, political issues, and public policy. POS 2 partially satisfies U.S. History, Constitution and American Ideas requirement at the CSU. (C-ID POLS 110).

POS 3 - Comparative Politics **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
Comparative analysis of different kinds of political systems, including their history, political institutions, processes and policies, the environments in which they occur, and their consequences. (C-ID POLS 130).

POS 12 - California State and Local Government **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is an introduction to government with emphasis on California State and local governments. Government institutions and political processes are examined in the context of the state's diverse population and culture. Additionally, the course covers the historical development of federal, state and local government relations. Attention is given to local government institutions and the dilemmas they face in carrying out their governing roles. POS 12 partially satisfies U.S. History, Constitution and American Ideas requirement at the CSU.

POS 16 - Vital Political Problems **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
An introduction to political science designed to familiarize students with basic political concepts, political ideologies, political systems, and subfields within political science. (C-ID POLS 150)

POS 18 - International Relations **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
An introduction to international relations theory with an examination of national, international, transnational, and sub-national actors and their institutions, interactions and processes as they relate to global issues. (C-ID POLS 140).

POS 92 - Exploring Leadership **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is designed to introduce students to the fundamental elements of leadership. Students will explore leadership theories and models as well as their own values and beliefs to develop a personal philosophy of leadership that includes an understanding of self, others and community. Students will learn how to apply theory into practice as they prepare for leadership roles in college and community settings.

POS 95 - Special Studies-POS **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

POS 99 - Work Experience-POS **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Physical Science (PSC)

PSC 10 - Introduction to Environmental Science **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
Introduction to Environmental Science introduces students to the scientific principles and problem solving techniques used to evaluate the effects of human activities on different ecosystems. Topics include the sustainability and stewardship of natural ecosystems, use of natural resources, environmental hazards such as air and water pollution, solid waste disposal, soils and food production, the atmosphere and climate change, as well as population and urbanization. Basic chemistry, physics and biology will be introduced throughout the course to explain and expand on these topics. The concepts will be reinforced with an integrated laboratory program.

PSC 11 - Earth Science with Lab **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
An introduction to the essentials of Earth Science with a laboratory. Topics include the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the interactions between physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather and climate. (C-ID GEOL 121).

PSC 12 - Concepts in Physical Science **4 Unit(s)**
Prerequisite(s): MATH 108 or MATH 116 or Equivalent
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course is an investigation of basic principles of physics and chemistry including matter, physical and chemical properties, energy, motion, light, atomic structure, bonding, solutions and chemical reactions. The inter-dependence of chemistry and physics will be emphasized. This course is intended for non-science majors. (C-ID PHYS 140).

PSC 20 - Introductory Physical Science **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
Introductory Physical Science introduces students to the earth and physical sciences and includes introductory sections on physics, earth and atmospheric science and space science. This course is meant to give students a broad but basic understanding of the concepts, terminology, and methods of study of the physical environment.

PSC 21 - Introductory Physical Science Laboratory **1 Unit(s)**
Prerequisite(s): PSC 20 (or concurrent enrollment)
Transfer Status: CSU/UC 51 hours Lab
This course will introduce students to the measurements, techniques, and terminology used to describe the physical environment. Topics include experiments and activities on the scientific method, Newton's laws of motion, energy, light and sound. Scientific methods will also be used to study earthquakes, geologic time, common rocks, and Earth's atmosphere. This course will supplement material presented in the Physical Science lecture course.

PSC 27 - Survey of the Universe **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a survey of our current understanding of the physical Universe. Consideration will range in length scales from the subatomic to large clusters of galaxies as well as time scales from the earliest universe through today and into the future. Broad topics will include a foundational example of how we construct knowledge of places we cannot currently visit (the cosmic distance ladder), what stars are and how they evolve, the evolution and current structure of our solar system, current thinking on the probability of extraterrestrial life and models for the evolution of matter in the universe and its ultimate fate. Along the way students will explore cosmic phenomena such as neutron stars, black holes, supernovae, dark matter and the mysterious dark energy.

PSC 30 - Introductory Astronomy **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This course is a study of our dynamic universe. Topics include the history of astronomy, the science of observation and discovery, stellar birth, maturation and death, planetary formation, a description of our solar system galaxies, quasars and cosmology.

PSC 30H - Honors Introductory Astronomy **4 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture / 51 hours Lab
This is an Honors level course in the study of our dynamic universe. Through a process of thorough analysis, critical thinking, extended discussions, and original oral and written responses, students will establish connections between the principle-based methods of the hard sciences and our understanding of the fundamental questions of the cosmos and our place in it. Issues covered include the history of astronomy, the science of observation and discovery, stellar birth, maturation and death, planetary formation, a description of our solar system galaxies, quasars, and cosmology. Graded Only.

PSC 50 - Introduction to Weather **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to modern meteorology. Topics include air circulation, pressure and wind, temperature, moisture, fronts, storm systems, cloud types and air stability. The course will also include an introduction to interpreting weather maps, synoptic weather forecasting, and climate change. Math will be used at times during this course but emphasis will be on a conceptual understanding of basic meteorology. It is highly recommended that students also enroll in PSC 51.

PSC 51 - Weather Lab **1 Unit(s)**
Prerequisite(s): PSC 50 (or concurrent enrollment)
Transfer Status: CSU/UC 51 hours Lab
This course will emphasize the practical concepts of physical science and weather using demonstration and experimentation. Topics include the scientific method, Newton's laws of motion, heat and energy transfer, the gas law, and fluid dynamics. Other experiments will demonstrate weather observation techniques, collection and analysis of atmospheric data, weather map study, cloud identification, interpretation of satellite imagery, and basic forecasting skills. This course includes a field trip to a local forecasting facility.

PSC 53 - Natural Disasters and Hazards **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course provides an introduction to the hazards created by the earth's natural and physical processes and covers a broad scientific understanding of earthquakes, volcanoes, hurricanes, tsunamis, tornados, flooding, wildfires and other disasters. Other topics will include threats from the earth's changing climate and potential impacts from asteroids and comets. Atmospheric and geological processes that create these catastrophes will also be discussed. The concept of science and the scientific method will be introduced and applied to the course material.

PSC 95 - Special Studies-PSC **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

Psychology (PSY)

PSY 1 - Principles of Psychology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course provides an introduction to the principles of psychology by surveying the basic theories, concepts and research in the science of human behavior and cognitive processes. Topics include the science of psychology, the biological bases of behavior, ethics, sensation and perception, learning and memory, development, cognition, motivation and emotion, sexuality and gender, stress and health, personality, social psychology, psychological disorders and therapies, and applied psychology. (C-ID PSY 110).

PSY 1H - Honors Principles of Psychology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an Honors level introduction to the principles of psychology. Study includes analysis of core theories and research in the science of human behavior. As an Honors course primary ethnographic sources, classic works and contemporary research are used alongside traditional sources. Units of study include scientific research methods, biological bases of behavior, ethics, sensation and perception, learning and memory, development, cognition, motivation and emotion, sexuality and gender, stress and health, personality, social psychology, psychological disorders and therapies, and applied psychology. Graded Only.

PSY 3 - Introduction to Biological Psychology **3 Unit(s)**
Prerequisite(s): PSY 1
Transfer Status: CSU/UC 51 hours Lecture
This course introduces the scientific study of the biological bases of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms, and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, and psychological disorders will be addressed. The course also notes historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental research. (C-ID PSY 150).

PSY 6 - Abnormal Psychology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course introduces the scientific study of psychopathology and atypical behaviors, broadly defined. Students investigate abnormal behavior from a variety of perspectives including biological, psychological, and sociocultural approaches. An integrative survey of theory and research in abnormal behavior, and intervention and prevention strategies for psychological disorders are also introduced. (C-ID PSY 120).

PSY 7 - Introduction to Research Methods in Psychology **3 Unit(s)**
Prerequisite(s): PSY 1, MATH 18
Transfer Status: CSU/UC 51 hours Lecture
This course surveys various research methods with an emphasis on research design, experimental procedures, instrumentation, and the collection, analysis, interpretation, and reporting of research data. Research design and methodology will be illustrated through a selected review of research in neurophysiology, sensation, perception, learning and/or memory. (C-ID PSY 200).

PSY 10 - Peace and Global Studies Capstone **1 Unit(s)**
Transfer Status: CSU 17 hours Lecture
This capstone course should be taken in the last semester when completing requirements for either Certificate of Achievement or Certificate in Peace and Global Studies. This course offers a venue for an interdisciplinary discussion on global issues and personal responsibility. Students will have the opportunity to synthesize ideas from each of the disciplines defined by the Peace and Global Certificates and how these courses interconnect. From this perspective one may become a more effective global citizen and assist in the advancement of personal, social, global and environmental recovery and transformation.

PSY 11 - Peace Psychology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course examines the social-psychological themes, theories, causes, and practices of violence and peace in relationship to self, others and the natural world. We will address how one comes to tolerate and rationalize violence as the means for resolving complex social and environmental problems. Students will explore the threats to peace from a psychological foundation and examine how peacemaking and peace building promotes understanding, empathy, and compassion for personal, social, global, and environmental justice.

PSY 15 - Lifespan Psychology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course provides an overview, from a psychological perspective, of human development from conception through death, including biological and environmental influences. Theories and research of physical, cognitive, personality, and social development are examined, as well as attention to developmental problems.(C-ID PSY 180).

PSY 16 - Psychology of Women **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
The course surveys the psychological, biological, cultural and social factors influencing the lives of women and explores theories and implications of gender. The course is designed to promote critical and creative thinking with an emphasis on social and personal assessment and integration of content.

PSY 20 - Personal and Social Growth and Wellness **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is designed with an applied focus on how psychology is used in everyday life and is related to the other social sciences. Emphasis is placed on exploring ideas of the Self in relationship with others, society and the world. Students are provided with life long skills to enhance their motivation toward continued self exploration and to maintain a healthy mental/intellectual, physical, emotional, spiritual, and social life.

PSY 24 - Psychology of Sleep, Dreams and Archetypes **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course examines the research, discoveries and theories concerning the sleep cycle, sleep disorders and their treatment, the content and meaning of dreams and altered states of consciousness and cross cultural views of dreams, myths and archetypes.

PSY 34 - Eastern Psychology: Traditions and Practices **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to Eastern Psychology. The theories of Eastern Psychology are practiced and reinforced through the Yoga Sutras. This foundation highlights self analysis through hatha yoga postures (asana), breathing techniques (pranayama), mental concentration (dhyana), sense withdrawal (pratyahara), and meditation (dharana). This course is experiential and is designed for self-enhancement, relaxation, stress management, and increased mindfulness.

PSY 36 - Psychology of Meditation and Mindfulness **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course is an introduction to the psychological principles of mindfulness through meditation. Students will explore the psychology of meditation, including major theories and forms of meditation from ancient Eastern traditions and practices to contemporary Western research on the benefits of meditation. Emphasis will be on ego-fixation and identification with the root causes of human suffering. Internal and external stresses will be examined.

PSY 41 - Socio-Cultural Context of Psychological Development **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course examines psychological developmental theories emphasizing social and cultural influences on motivation, social-emotional and intellectual development. Exploration will emphasize how children are socialized from within the family, school, peer-groups, religious groups, media and communities. Psychological dynamics of power and sexual orientation are examined and how these influence individuals across lower socioeconomic environments and underrepresented groups as well as American Indian, Asian, Latin, Middle Eastern and Black cultures.

PSY 95 - Special Studies-PSY **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

PSY 99 - Work Experience-PSY **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Reading (READ)

READ 2 - Speed Reading **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course will improve a student's critical reading, reading rate and reading flexibility. Emphasis is on adjusting the level of comprehension and reading rate to suit the student's purpose, the complexity of the material, and the student's skills and background. The student will have the opportunity to develop a variety of techniques for reading print and digital texts, including newspapers, magazines, expository essays, scholarly articles, media, novels and textbooks. They will also learn strategies to interpret and evaluate both non-fiction and fiction.

READ 95 - Special Studies-READ **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

READ 126 - College Success Skills **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course is a college success and study skills class in which students will learn and apply necessary strategies for success in all academic courses. These strategies include note-taking, study and test-taking, principles of time management, utilizing campus and online resources, using textbooks effectively, and applying learning styles theory. The course will also introduce students to computer applications that will assist them with college study skills.

READ 127 - Reading for College Success **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course will prepare students for college reading. Students will develop critical reading and critical thinking skills for success in this and other courses. Students will become more efficient and flexible readers as they choose appropriate strategies for a wide variety of challenging fiction and non-fiction reading materials. Skills and strategies will be developed in the context of course readings.

READ 223 - Strengthening Reading I **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course strengthens and increases the student's reading ability. Emphasis will be placed on reading for meaning, developing background knowledge, and enhancing vocabulary. Study skills and critical thinking strategies will also be developed. Pass/No Pass Only.

READ 225 - Strengthening Reading II **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course will improve the student's reading ability. Emphasis is on developing background knowledge, vocabulary enrichment, comprehension development, critical thinking skills, and study skills. The course includes fiction, non-fiction, and content area readings. Pass/No Pass Only.

Real Estate (RLS)

RLS 20 - Real Estate Principles **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This introductory course provides students with an overview of the real estate industry, basic real estate terminology, fundamental economic principles applicable to the real estate industry, and professional and ethical challenges experienced by real estate professionals. The course introduces the fundamental principles of real estate ownership, transfer, financing, evaluation, agency law and contracts. This course satisfies the California Department of Real Estate (DRE) requirement that students pass a college-level "Real Estate Principles" course prior to taking the Real Estate Salesperson License Exam. This course can also count as one of the three optional courses that students must pass prior to taking the California Real Estate Broker License Exam.

RLS 25 - Real Estate Practices **3 Unit(s)**
Prerequisite(s): RLS 20 (or concurrent enrollment)
Transfer Status: CSU 51 hours Lecture
This course provides students with necessary skills to engage in the day-to-day activities of a licensed real estate salesperson. Students are provided with a practical, legal and ethical foundation regarding social interactions; prospecting and obtaining listings; selling and advertising techniques; negotiating; financing and completing standardized real estate forms. This course satisfies the California Department of Real Estate (DRE) requirement that students pass a "Real Estate Practices" course prior to taking both the Real Estate Salesperson and Broker License Exams.

RLS 30 - Legal Aspects of Real Estate **3 Unit(s)**
Prerequisite(s): RLS 20 (or concurrent enrollment)
Transfer Status: CSU 51 hours Lecture
This course provides students with a working knowledge of California real property laws. Topics include sources of real estate law; classification of property; fixtures and easements; property rights, liens and homesteads; real estate contracts; licensees' duties and responsibilities; property ownership and management; landlord-tenant law; and covenants, conditions and restrictions. This course satisfies the California Bureau of Real Estate (BRE) requirement that students pass a college-level "Legal Aspects of Real Estate" course prior to taking the Real Estate Broker License Exam.

RLS 35 - Real Estate Appraisal **3 Unit(s)**
Prerequisite(s): RLS 20 (or concurrent enrollment)
Transfer Status: CSU 51 hours Lecture
This course introduces students to real estate valuation, with an emphasis on residential real estate. The course covers basic real estate appraisal principles, the systematic appraisal process, different approaches to estimating value and factors affecting market value (including the economic environment). In addition, students will learn about the role and responsibilities of the professional appraiser, trends in the appraisal industry and the process of preparing an appraisal report. This course satisfies the California Department of Real Estate (DRE) requirement that students pass a college-level "Real Estate Appraisal" course prior to taking the Real Estate Broker License Exam. It can also count as the optional course that students must pass prior to taking the California Real Estate Salesperson License Exam. This course also meets the license requirements of the 2008 Appraisal Qualifications Board of the Appraisal Foundation and is required for the appraisal trainee license, residential license, certified residential license and certified general license.

RLS 40 - Real Estate Finance **3 Unit(s)**
Prerequisite(s): RLS 20 (or concurrent enrollment)
Transfer Status: CSU 51 hours Lecture
This course introduces the issues, trends, regulations and procedures relating to real estate financing for all types of real property: residential, multi-family, commercial and special purpose. Topics include types of lenders; lending policies; methods of qualifying for loans; and uses of mortgages, trust deeds, and leases of real property. This course satisfies the California Department of Real Estate (DRE) requirement that students pass a college-level "Real Estate Finance" course prior to taking the Real Estate Broker License Exam. It can also count as the optional course that students must pass prior to taking the California Real Estate Salesperson License Exam.

RLS 45 - Real Estate Economics **3 Unit(s)**
Prerequisite(s): RLS 20 (or concurrent enrollment)
Transfer Status: CSU 51 hours Lecture
This course provides students with a basic understanding of economic factors that affect residential, commercial, industrial, rural and special purpose real estate. The focus is on financing and government policy; urban development and renewal; regulation of land use; business and real estate cycles and mortgage markets and their impact on real estate and investment opportunities. This course satisfies the California Department of Real Estate (DRE) requirement that students pass a college-level "Real Estate Economics" course prior to taking the Real Estate Broker License Exam. It can also count as the optional course that students must pass prior to taking the California Real Estate Salesperson License Exam.

RLS 50 - Escrow Procedures **3 Unit(s)**
Prerequisite(s): RLS 20 (or concurrent enrollment)
Transfer Status: CSU 51 hours Lecture
This course provides students with a basic understanding of escrow, the role of taking an escrow and how to prepare and process the escrow documents. The course also covers the Secure and Fair Enforcement (SAFE) Act, signed into law as part of the Housing and Economic Recovery Act (HERA) of 2008, including its impact in the preparation of the Housing and Urban Development HUD-1 real estate settlement statement. This course can fulfill an elective course requirement of the California Department of Real Estate (DRE) for those taking the Real Estate Salesperson and Broker Exams.

RLS 55 - Property Management **3 Unit(s)**
Prerequisite(s): RLS 20 (or concurrent enrollment)
Transfer Status: CSU 51 hours Lecture
This course provides students with a basic understanding of property management principles and practices. The content focuses on issues relating to management, agency, contracts, and practical issues relating to property rental. Legal issues and government regulations regarding such issues as evictions, discrimination, landlord and tenant rights and rent control are explored. This course can fulfill an elective course requirement of the California Department of Real Estate (DRE) for those taking the Real Estate Salesperson and Broker Exams.

RLS 60 - Real Estate Mortgage Brokerage **3 Unit(s)**
Prerequisite(s): RLS 20 (or concurrent enrollment)
Transfer Status: CSU 51 hours Lecture
The course is an introduction to Mortgage Brokerage: how it works and how mortgage brokers can assist home-buyers in finding the right loan. Topics include the Secure and Fair Enforcement (SAFE) Act (signed into law as part of the Housing and Economic Recovery Act (HERA) of 2008) and the Dodd-Frank Act and their impacts on mortgage lending practices and professionals, including the new professional designation of Mortgage Loan Originator (MLO). This course can fulfill an elective course requirement of the California Department of Real Estate (DRE) for those taking the Real Estate Salesperson and Broker Exams.

RLS 99 - Work Experience-RLS **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Respiratory Care (RT)

RT 97 - Special Problems-RT **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

RT 99 - Work Experience-RT **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

RT 110 - Fundamentals of Respiratory Care **7 Unit(s)**
Prerequisite(s): Admission to the RT Program
Co-requisite(s): ALH 6
Transfer Status: NT 102 hours Lecture / 51 hours Lab
This course is designed to introduce the student to basic atmospheric physics, cardiopulmonary anatomy and physiology, blood gas chemistry, and ventilatory dynamics. The student will be introduced to basic concepts of health and disease with emphasis on cardiopulmonary disorders, fundamentals of problem solving techniques and safe handling of medical gases and equipment. Selected respiratory care and diagnostic equipment, techniques and problems will be introduced in the laboratory. Graded Only.

RT 115 - Clinical Preparation for Respiratory Care **0.5 Unit(s)**
Prerequisite(s): RT 110, ALH 6, ENGL 2, CMST 2 or CMST 2H or CMST 4
Transfer Status: NT 36 hours Lab
This course is an introduction to the basic concepts of clinical respiratory care as practiced in the acute care hospital. Students will become conversant with bedside examination, monitoring, and care of medical/surgical and respiratory disease patients.

RT 120 - Concepts in Respiratory Care **7 Unit(s)**
Prerequisite(s): RT 115
Co-requisite(s): RT 125, RT 128
Transfer Status: NT 102 hours Lecture / 51 hours Lab
This course is a survey of cardiorespiratory disease with a focus on the role that the respiratory care practitioner plays in professional and culturally appropriate clinical assessment, diagnosis, and treatment. Cultural awareness, sensitivity and communication will be emphasized. Selected respiratory care techniques, equipment, and procedures will be introduced in the laboratory. Graded Only.

RT 125 - Introduction to Clinical Respiratory Care **5 Unit(s)**
Prerequisite(s): RT 115
Co-requisite(s): RT 120, RT 128
Transfer Status: NT 272 hours Lab
This course is an introduction to the basic concepts of clinical respiratory care as practiced in the acute care hospital. Students will become conversant with bedside examination, monitoring, and care of medical/surgical and respiratory disease patients. Graded Only.

RT 128 - Respiratory Care Pharmacology **3 Unit(s)**
Prerequisite(s): RT 115
Co-requisite(s): RT 120, RT 125
Transfer Status: NT 51 hours Lecture
This course introduces students to fundamental pharmacological concepts and applied pharmacology. Emphasis will be placed on drug action and interaction as well as the practical aspects of routes of administration. Graded Only.

RT 135 - Fundamentals of Clinical Respiratory Care **3.5 Unit(s)**
Prerequisite(s): RT 120, RT 125, RT 128
Transfer Status: NT 30 hours Lecture / 96 hours Lab
This course is a supervised clinical respiratory therapy experience in the hospital setting, including the application of theories and therapeutic modalities taught in previous RT classes. Mechanical Ventilation concepts will be introduced in the lecture portion. Graded Only.

RT 140 - Fundamentals of Intensive Respiratory Care **6 Unit(s)**
Prerequisite(s): RT 135
Co-requisite(s): RT 142, RT 145
Transfer Status: NT 85 hours Lecture / 51 hours Lab
This course is a study of the fundamentals of respiratory care in the critical care setting. Emphasis is placed on the critical care environment, advanced patient assessment, monitoring, advanced techniques of airway management and continuous mechanical ventilatory support. Graded Only.

RT 142 - Neonatal and Pediatric Respiratory Care **3 Unit(s)**
Prerequisite(s): RT 135
Co-requisite(s): RT 140, RT 145
Transfer Status: NT 51 hours Lecture
This course is an introduction to respiratory care of the neonatal and pediatric patient. Emphasis is placed upon growth and development, pathophysiology, clinical assessment, treatment, resuscitation and mechanical ventilatory support. Graded Only.

RT 145 - Advanced Respiratory Care Procedures **5 Unit(s)**
Prerequisite(s): RT 135
Co-requisite(s): RT 140, RT 142
Transfer Status: NT 272 hours Lab
This course is designed to support continued in-hospital development of clinical respiratory care skills with emphasis on the application of scientific principles to the therapeutic environment and life support of the critically ill patient. Graded Only.

RT 155 - Respiratory Care Practicum I **2 Unit(s)**
Prerequisite(s): RT 140, RT 142, RT 145
Transfer Status: NT 118 hours Lab
This course is designed as a clinical experience to allow the respiratory care student to hone skills learned in previous RT courses while developing new skills in the performance of day-to-day tasks of the staff respiratory care practitioner. Emphasis will be placed on both self assessment and critique of clinical performance by hospital personnel. Offered in Winter Session only. Travel to out-of-area clinical facilities will be required. Graded Only.

RT 160 - Respiratory Care Seminar II **4 Unit(s)**
Prerequisite(s): RT 155
Co-requisite(s): RT 165
Transfer Status: NT 68 hours Lecture
This course is designed to explore the historical, contemporary and technical issues germaine to respiratory care as an allied health profession through lecture/discussion/literary review. Emphasis will be placed on issues relevant to the current practice of respiratory care and credentialing requirements. Preparation for post-graduate credentialing examinations will be included in the course work. Graded Only.

RT 165 - Respiratory Care Practicum II **8 Unit(s)**
Prerequisite(s): RT 155
Co-requisite(s): RT 160
Transfer Status: NT 408 hours Lab
This course supports the continuing practice and evaluation of skills for advanced respiratory care students in the hospital setting. Development of skills pertaining to the organization and completion of patient care assignments in both the medical-surgical and critical care environments are emphasized. American Heart Association (AHA) Advanced Cardiac Life Support and Pediatric Advanced Life Support certifications are incorporated in the course, as these are required for employment in Respiratory Care.

Radio, TV, Film (RTVF)

RTVF 12 - Mass Media and Society **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
Survey of mass communication and the interrelationships of media with society including history, structure and trends in a digital age. Discussion of theories and effects, economics, technology, law and ethics, global media, media literacy, and social issues, including gender and cultural diversity. (C-ID JOUR 100).

RTVF 13 - Exploring Contemporary Television **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
The course introduces students to contemporary American television (TV) programming including daytime drama, situation comedy, westerns, police and mystery, medical/legal and advertising. TV content will be looked at from a variety of perspectives including social, cultural, political, historical, and economic to explore how television impacts culture and the individual.

RTVF 14 - Introduction to Media Writing **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
Basic introductory course in writing for the film and electronic media. Emphasis on preparing scripts in proper formats, including fundamental technical, conceptual and stylistic issues related to writing fiction and non-fiction scripts for informational and entertainment purposes in film and electronic media. Includes a writing evaluation component as a significant part of the course requirement.

RTVF 15 - Introduction to Film **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course introduces students to the influence film has on us an art form and the techniques filmmakers use to make us respond. Students will become familiar with the power of film to influence popular beliefs and attitudes. Students will be able to describe the creative and technical elements artists use to make movies such as scriptwriting, cinematography, editing, music, acting, and art direction.

RTVF 30 - Digital Audio Production **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course serves as an introduction to the theory and practice of audio production for radio, television, film and digital recording applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Students gain hands on experience recording, editing, mixing and mastering audio. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software.

RTVF 40 - Digital Video Production **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
The course provides an introduction to the theory, terminology, and operation of single camera video production, including composition and editing techniques, camera operation, portable lighting, video recorder operation, audio control and basic editing. This course focuses on the aesthetics and fundamentals of scripting, producing, directing on location, postproduction, and exhibition/distribution.

RTVF 55 - Music Video Production **3 Unit(s)**
Transfer Status: CSU 34 hours Lecture / 51 hours Lab
This course introduces students to the process of producing video and audio recordings of live musical performances. Students will work as the television studio crew recording live musical performances and will learn basic techniques including lighting, sound recording, video directing, camera operations, and production planning.

RTVF 97 - Special Problems-RTVF **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

RTVF 99 - Work Experience-RTVF **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Sociology (SOC)

SOC 2 - Principles of Sociology **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course introduces students to the sociological perspective. Students will gain an understanding of the external social forces that guide human action and how the wider society influences individual and collective experiences. The course will cover the basic concepts, theoretical approaches, and research methods of sociology. Topics may include the analysis and explanation of social structure, group dynamics, socialization and the self, social stratification, culture and diversity, social change, human impact on the environment, and global dynamics. (C-ID SOCI 110).

SOC 4 - Modern Social Problems **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
An identification and analysis of contemporary social problems including (1) the role of power and ideology in the definition of social problems, (2) their causes and consequences, (3) evaluations of proposed solutions, and (4) methods of intervention. Topics will vary. (C-ID SOCI 115).

SOC 5 - Our Sustainable Future **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course introduces students to the principles of 'Sustainability' within the global, national, regional, and local contexts. This course will increase students' literacy of the three interconnected 'pillars' of sustainable systems, the ecosystem, human society, and the economy. To develop these literacies, students will begin by investigating the perils that currently effect each system, for example, resource depletion, species extinction, pollution, and global warming in the ecosphere; population growth, social inequality, disease, violence and conflict in human societies; and imperialism, unemployment, consumerism and waste in the global economy. The majority of the course will focus on social institutions and organizations that are reimagining our common future by rethinking and redesigning how we live. Students will learn of new and innovative uses of renewable resources, production processes, and human capital; alternative forms of energy, transportation, building materials, food production, media, education, and urban planning; and new ways to build coalitions, community, trust, and democratic participation. Case studies will highlight sustainability practices in different parts of the world from a variety of perspectives.

SOC 8 - Introduction to Marriage, Family and Intimate Relationships **3 Unit(s)**
Transfer Status: CSU 51 hours Lecture
This course is a sociological analysis of contemporary issues in family life, including historical and recent changes and the socio-cultural and economic forces shaping these changes. Cross-cultural analysis will also be considered. (C-ID SOCI 130).

SOC 10 - Introduction to Crime and Society **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a sociological analysis of crime, criminal behavior, and the criminal justice system. The history and social construction of crime and criminality are examined. The definition of crime and its violations as well as the laws and methods used to control criminal behavior are examined. The measurement of crime and basic theoretical explanations of criminal behavior are included. (C-ID SOCI 160).

SOC 14 - Sociology of Gender **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a sociological analysis of the social construction of masculinity and femininity historically and cross-culturally. It examines the debates on sex and gender. It analyzes the impact of economic and political change on gender expectations and practices. It focuses on macro-analysis of how institutions and culture shape gender and micro-analysis of how individuals are socialized and how they "do" and practice gender. (C-ID SOCI 140).

SOC 20 - Introduction to Race and Ethnicity **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is a sociological analysis of race, ethnicity, prejudice and discrimination. It examines the cultural, political and economic practices and institutions that support or challenge racial and ethnic inequalities, as well as patterns of interaction between various racial and ethnic groups. (C-ID SOCI 150).

SOC 30 - Sociology of Inequality **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This course is an analysis of social stratification and its affect on minority/majority group relations in American society. Emphasis will be on an examination of how the class system ranks categories of people in hierarchies rooted in wealth, income, prestige, power and education. Social inequality that exists nationally and globally are studied though the lens of institutional discrimination and environmental issues.

SOC 30H - Honors Sociology of Inequality **3 Unit(s)**
Transfer Status: CSU/UC 51 hours Lecture
This is an Honors level analysis of social stratification and its affect on minority/majority group relations in American society. Emphasis will be on an examination of how the class system ranks categories of people in hierarchies rooted in wealth, income, prestige, power and education. Social inequality that exists nationally and globally are studied through the lens of institutional discrimination and environmental issues Graded Only.

SOC 55 - Sustainability Studies Seminar **2 Unit(s)**
Co-requisite(s): Completion of/or concurrent enrollment in a minimum of 3 courses from Sustainability Studies Certificate Program.
Transfer Status: CSU 34 hours Lecture
Sustainability Studies is a capstone seminar that will provide a forum for Sustainability Studies students to integrate and critically evaluate the various content of the courses within the Sustainability Studies Certificate Program. Emphasis will be placed on evaluating the triple-bottom-line impacts of economic, social and environmental practices and policies at local, regional and global levels. Graded Only.

SOC 95 - Special Studies-SOC **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

SOC 99 - Work Experience-SOC **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

Spanish (SPAN)

SPAN 1 - First Semester Spanish **4 Unit(s)**
Transfer Status: CSU/UC 68 hours Lecture
This introductory course teaches beginning language acquisition in a cultural context through listening, speaking, reading and writing. The students will interact with authentic language in cultural context. (C-ID SPAN 100)

SPAN 2 - Second Semester Spanish **4 Unit(s)**
Prerequisite(s): SPAN 1
Transfer Status: CSU/UC 68 hours Lecture
This course continues to teach language acquisition in a cultural context through listening, speaking, reading and writing at the second semester level. The students will continue to interact with authentic language within culturally rich contexts. (C-ID 110)

SPAN 3 - Third Semester Spanish **4 Unit(s)**
Prerequisite(s): SPAN 2
Transfer Status: CSU/UC 68 hours Lecture
This course teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Content is expanded beyond "survival" needs of the immediate environment in order to express personal meaning and to apply different strategies and techniques to go beyond casual conversation and express opinions, make suggestions on familiar topics, as well as some abstract issues and plans. Students demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. Accuracy becomes quite high for high frequency structures and vocabulary but more complex discourse is still developing and requires a somewhat sympathetic listener or reader. Students will demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. This course will primarily be taught in Spanish. Students who have completed at least two, but fewer than three years of high school Spanish (or equivalent) with a letter grade of "A" or "B" within one year of the present date, should register for Fourth Semester Spanish. (C-ID SPAN 200)

SPAN 4 - Fourth Semester Spanish **4 Unit(s)**
Prerequisite(s): SPAN 3
Transfer Status: CSU/UC 68 hours Lecture
This course continues to expand upon culture and facilitate language acquisition through listening, speaking, reading and writing. Students will interact with more sophisticated authentic language in context. Content continues to expand in order to express more complex ideas in order to express personal meaning and to apply different strategies and techniques to go beyond causal conversation and express opinions, make suggestions on familiar topics, as well as some abstract issues and plans. Students demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. Accuracy becomes quite high for high frequency structures and vocabulary but more complex discourse is still developing and requires a somewhat sympathetic listener or reader. Students will continue to demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. This course will primarily be taught in Spanish. (C-ID SPAN 210)

SPAN 14 - Hispanic Short Stories **3 Unit(s)**
Prerequisite(s): SPAN 3
Transfer Status: CSU/UC 51 hours Lecture
This course is an introduction to Hispanic literature through the short story genre. Students will read, discuss and analyze short stories by Latin American and Spanish authors. Emphasis will also be placed on the oral and written practice of Spanish. This course is taught in Spanish and is intended for students who have completed three semesters of college level Spanish or who are native speakers.

SPAN 16 - Hispanic Film **3 Unit(s)**
Prerequisite(s): SPAN 3
Transfer Status: CSU/UC 51 hours Lecture
This course is a delineation and discussion of the central themes of selected films of prominent Hispanic filmmakers. A wide selection of feature length Spanish language films will be viewed and discussed. Hispanic cultures, as displayed in film, will be examined in terms of uniqueness and universality. Emphasis will also be placed on the oral and written practice of Spanish. This course is taught in Spanish and is intended for students who have completed three semesters of college level Spanish or who are native speakers.

SPAN 95 - Special Studies-SPAN **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study in researching an area in the student's academic major. Any student interested in registering for a Special Studies course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

SPAN 100 - Beginning Conversational Spanish **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course emphasizes the development of basic understanding and speaking skills in Spanish. Minimal emphasis is placed on formal grammar. Multimedia cultural presentations are offered throughout the course. This course is intended for those who wish to develop "survival" Spanish in everyday basic situations.

SPAN 101 - Intermediate Conversational Spanish **3 Unit(s)**
Transfer Status: NT 51 hours Lecture
This course emphasizes the development of basic/intermediate understanding and speaking skills in Spanish. Minimal emphasis is placed on formal grammar. Multimedia cultural presentations are offered throughout the course. This course is intended for those who wish to continue development of "survival" Spanish in everyday situations.

Special Education Training (SPED)

SPED 100 - Special Education Regulations in the Workplace **2 Unit(s)**
Co-requisite(s): SPED 101
Transfer Status: NT 34 hours Lecture
This course prepares students to teach adults with disabilities who are participating in a day or vocational program that serves adults (18 years of age or older). Regulatory topics will include conjoining special education with vocational education, Title 17, person-centered planning, and Individual Service Plans.

SPED 101 - Teaching Adults with Disabilities **2 Unit(s)**
Co-requisite(s): SPED 100
Transfer Status: NT 34 hours Lecture
This course provides an overview of challenges that may influence the learning process. Instructional strategies for addressing environmental, medical, intellectual, and physical issues will be presented. The goal of this course is to enhance students' awareness of probable barriers in learning and how the barriers can be lessened or resolved.

SPED 102 - Teaching Adults with Disabilities Practicum **3 Unit(s)**
Prerequisite(s): SPED 100, SPED 101
Transfer Status: NT 17 hours Lecture / 102 hours Lab
This course is a practical applications course allowing students to apply skills developed in SPED 100 and SPED 101. Students are required to work in a vocational or day program assisting adults with disabilities in completing agency contracts, learning essential life/work skills, and developing interpersonal skills.

Work Experience (WKE)

WKE 198 - General Work Experience **1 - 6 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: NT
General Work Experience (GWE) is an on-the-job educational experience designed to help students develop the skills and knowledge necessary to enhance success in present and future employment. The job need not be related to the student's educational program. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-360 hours unpaid) or seventy-five hours of paid work experience (75-450 hours paid). Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 6.00 units. Pass/No Pass Only.

Welding (WLD)

WLD 20 - Beginning Welding **4 Unit(s)**
Transfer Status: CSU 17 hours Lecture / 153 hours Lab
This course includes oxyacetylene welding (OAW), oxyacetylene cutting (OFC-A) and shielded metal arc welding (SMAW) processes, in the flat and horizontal positions on various joint details. It will also include safety procedures, electrode identification, joint fit-up and alignment, base metal preparation, weld quality, beads and fillet welds, with focus on theory and practice. All welds will meet the American Welding Society (AWS) qualification standards.

WLD 21 - Intermediate Welding **4 Unit(s)**
Prerequisite(s): WLD 20
Transfer Status: CSU 17 hours Lecture / 153 hours Lab
In this course students will perform welds in positions other than flat and horizontal. The content will enhance the ability of the students to perform welds out of position. The course includes welding safety, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), plasma arc cutting (PAC), air carbon arc cutting and gouging (CAC-A) welding and cutting processes. These welds will be performed in the flat, horizontal, vertical, and overhead positions. It will also include base metal, shielded metal arc welding electrodes, joint fit-up and alignment, groove welds with backing, and open V-groove welds. All welds will meet the American Welding Society (AWS) qualification standards.

WLD 22 - Oxyacetylene Welding and Flame Cutting **2 Unit(s)**
Prerequisite(s): WLD 21 and NCCER Level I Welding Qualification
Co-requisite(s): WLD 24, WLD 25, WLD 26, WLD 40, WLD 154
Transfer Status: CSU 17 hours Lecture / 51 hours Lab
This course includes the techniques used for oxyacetylene welding (OAW) in all positions (flat, vertical, horizontal and overhead) and uses a variety of freehand and automatic burning equipment on different metals.

WLD 24 - Shielded Metal Arc Welding (Stick Electrode) **8 Unit(s)**
Prerequisite(s): WLD 21 and NCCER Level I Welding Qualification
Co-requisite(s): WLD 22, WLD 25, WLD 26, WLD 40, WLD 154
Transfer Status: CSU 34 hours Lecture / 306 hours Lab
This course includes pre-employment training for welding technicians. Emphasis on developing manipulative proficiency in the use of shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and flux core arc welding (FCAW), in the flat, horizontal, vertical, and overhead positions. These welding processes will be applied to light and heavy gauge plate steel for light construction. Part of the Level Two welder qualification for American Welding Society (AWS).

WLD 25 - Fabrication Practicums **2 Unit(s)**
Prerequisite(s): WLD 21 and NCCER Level I Welding Qualification
Co-requisite(s): WLD 22, WLD 24, WLD 26, WLD 40, WLD 154
Transfer Status: CSU 17 hours Lecture / 51 hours Lab
This course will instruct students on theory and proper operation and applications of equipment, tools, fasteners and processes used in welding and fabrication industries. Emphasis is placed in hands-on applications.

WLD 26 - Symbol Reading, Blue Print Interpretation and Computations **3 Unit(s)**
Prerequisite(s): WLD 21 and NCCER Level I Welding Qualification
Co-requisite(s): WLD 22, WLD 24, WLD 25, WLD 40, WLD 154
Transfer Status: CSU 17 hours Lecture / 102 hours Lab
This course includes an introduction to blueprint reading and welding symbols interpretation as applied to measurement and computations of metal and pipe layouts. Included within the course are layout and marking tool techniques used in the welding industry. Techniques of fabrication, structured materials listing and assembly methods will be emphasized.

WLD 28 - Mig and Tig Arc Welding **3 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 40, WLD 50, WLD 154 and NCCER Level II Welding Qualification
Co-requisite(s): WLD 30, WLD 32, WLD 34, WLD 36, WLD 42, WLD 56, WLD 156
Transfer Status: CSU 17 hours Lecture / 102 hours Lab
This course includes the gas metal arc welding (GMAW)/metal inert gas (MIG), gas tungsten arc welding (GTAW)/tungsten inert gas (TIG) and flux cored arc welding (FCAW) processes, in the flat, vertical, horizontal, and overhead positions. It will also include safety procedures, electrode identification, joint fit-up and alignment, base metal preparation, weld quality, and beads, with a focus on theory and practice.

WLD 30 - Heavy Plate Welding **3 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 40, WLD 50, WLD 154 and NCCER Level II Welding Qualification
Co-requisite(s): WLD 28, WLD 32, WLD 34, WLD 36, WLD 42, WLD 56, WLD 156
Transfer Status: CSU 17 hours Lecture / 102 hours Lab
This course includes the shielded metal arc welding (SMAW) processes and the flux cored arc welding (FCAW) Process, in the flat, horizontal, vertical and overhead positions on heavy plate (3/4" to 3" thick). It will also include safety procedures, electrode identification, joint fit-up and alignment, base metal preparation, weld quality, and beads, with focus on theory and practice.

WLD 32 - Integrated Welding Applications **3 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 40, WLD 50, WLD 154 and NCCER Level II Welding Qualification
Co-requisite(s): WLD 28, WLD 30, WLD 34, WLD 36, WLD 42, WLD 56, WLD 156
Transfer Status: CSU 17 hours Lecture / 102 hours Lab
In this course students will perform layout, fitting, welding, inspection of structural weldments, piping, tank, and low pressure vessel simulation. Shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), and flux cored arc welding (FCAW) processes are emphasized. Shop fabrication and field erection are simulated. Limited access welding is encountered.

WLD 34 - Pipe and Tube Welding **4 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 40, WLD 50, WLD 154 and NCCER Level II Welding Qualification
Co-requisite(s): WLD 28, WLD 30, WLD 32, WLD 36, WLD 42, WLD 56, WLD 156
Transfer Status: CSU 17 hours Lecture / 153 hours Lab
This course covers shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), gas metal arc welding (GMAW), and flux core arc welding (FCAW) processes on several pipe systems. A variety of materials and configurations on sub critical pipe welding (pressure and power systems, cross-country transmission, pipeline welding and water transmission pipe welding) will be used. Special attention and performance standards for the qualifications will be used from the following codes: American Petroleum Institute (API), American Welding Society (AWS) and American Society of Mechanical Engineers (ASME).

WLD 36 - Welder Qualification **3 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 40, WLD 50, WLD 154 and NCCER Level II Welding Qualification
Co-requisite(s): WLD 28, WLD 30, WLD 32, WLD 34, WLD 42, WLD 56, WLD 156
Transfer Status: CSU 17 hours Lecture / 102 hours Lab
This course prepares students for qualifications in several codes to meet the required standards for entry-level employment. Training in shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), gas metal arc welding (GMAW), and flux core arc welding (FCAW) to meet the American Welding Society (AWS), American Petroleum Institute (API), and American Society of Mechanical Engineers (ASME) code standards. Skills and proficiencies of all positions qualification test on plate and pipe are emphasized.

WLD 40 - Welding Equipment Maintenance and Service **2 Unit(s)**
Prerequisite(s): WLD 21 and NCCER Level I Welding Qualification
Co-requisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 154
Transfer Status: CSU 17 hours Lecture / 51 hours Lab
This course is a study of the theory, application and practices for welding equipment. This will include the maintenance and service skills for the equipment used in the welding industry.

WLD 42 - Introduction to Welding Inspection **2 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 40, WLD 50, WLD 154 and NCCER Level II Welding Qualification
Co-requisite(s): WLD 28, WLD 30, WLD 32, WLD 34, WLD 36, WLD 56, WLD 156
Transfer Status: CSU 34 hours Lecture
This course instructs on the qualifications and knowledge requirements of a Certified Welding Inspector (CWI). Methods of testing, various procedures, and techniques of inspection. familiarize students with the basic concepts of destructive and nondestructive evaluation processes. Emphasis of record keeping methods used by the American Welding Society (AWS), American Society of Mechanical Engineers (ASME), American Petroleum Institute (API), and American National Standards Institute (ANSI).

WLD 50 - Pipe Fitting and Cutting **2 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 40, WLD 154 and NCCER Level II Welding Qualification
Transfer Status: CSU 17 hours Lecture / 51 hours Lab
This course assists students in pipe fitting, measurements, patterns, marking and layout tools used in the pipe welding industry. Techniques of fitting and cutting various pipe joint designs will be practiced.

WLD 55 - Power Generation and Petroleum Chemical Pipe & Tube Welding **5 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 28, WLD 30, WLD 32, WLD 34, WLD 36, WLD 40, WLD 42 and WLD 50, WLD 56 and NCCER Level III Welding Qualification
Co-requisite(s): WLD 158
Transfer Status: CSU 17 hours Lecture / 204 hours Lab
This course teaches shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW), gas tungsten arc welding (GTAW), oxyacetylene welding (OAW), and oxy-fuel cutting (OFC)processes on several piping systems. A variety of materials and configurations on sub-critical pipe welding to include pressure and power systems, cross-country transmission, water transmission and pipeline welding will be studied. Special attention and performance to the American Petroleum Institute (API) 1104 and American Society of Mechanical Engineers (ASME) Section IX code specifications for certification will be practiced. Intense training in pipe fitting, measurements, marking and layout tools used in the pipe welding industry will be stressed. Techniques of layout, cutting, fitting, and welding of various pipe joint designs will be performed.

WLD 56 - Welding Industry Employment Preparation **3 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 40, WLD 50, WLD 154 and NCCER Level II Welding Qualification
Co-requisite(s): WLD 28, WLD 30, WLD 32, WLD 34, WLD 36, WLD 42, WLD 156
Transfer Status: CSU 51 hours Lecture
This course teaches job seeking skills demanded of welders in the industry today. Topics include a comparison of prospective employers within the welding industry, preparation for taking employment required skills tests, portfolio development, job-specific interview techniques and work place ethics and professionalism.

WLD 97 - Special Problems-WLD **1 - 3 Unit(s)**
Prerequisite(s): Permission of instructor
Transfer Status: CSU
Supervised study and practice in solving special problems in the student's career major. Any student interested in registering for a Special Problems course should contact a full-time instructor or chair/coordinator in the appropriate area no later than the last day of the tenth week of instruction. 51-153 hours Independent Study. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 3.00 units.

WLD 99 - Work Experience-WLD **1 - 8 Unit(s)**
Prerequisite(s): Permission of Cooperative Work Experience Education instructor and employment supervisor
Transfer Status: CSU
Career Work Experience (CWE) is a course that gives students the opportunity to earn both a grade and units for what they learn on the job related to their vocational major while gaining practical work experience. Students may earn one semester unit of college credit in this course for every sixty hours of unpaid work experience (60-480 hours unpaid) or seventy-five hours of paid work experience (75-600 hours paid). Students may earn a maximum of sixteen units for all types of Work Experience. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 8.00 units.

WLD 150 - Shop Practices for Beginning Welders **0.5 - 1 Unit(s)**
Transfer Status: NT 25.5 - 51 hours Lab
This is a supervised lab experience for beginning welding students. Students will practice skills in oxyacetylene welding (OAW), oxy-fuel cutting (OFC) and shielded metal arc welding (SMAW) processes, in the flat and horizontal positions on various joint details. All welds will meet the American Welding Society (AWS) qualification standards. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 1.00 units. Pass/No Pass Only. Open Entry/Open Exit.

WLD 152 - Shop Practices for Intermediate Welders **0.5 - 1 Unit(s)**
Prerequisite(s): WLD 20
Transfer Status: NT 25.5 - 51 hours Lab
This is a supervised lab experience for intermediate welding students. Students will practice skills in shielded metal arc welding (SMAW), gas metal arc welding (GMAW), oxy-fuel cutting (OFC), plasma arc cutting (PAC),and air carbon arc cutting and gouging (CAC-A). Welding and cutting processes will be in the flat, horizontal, vertical, and overhead positions on groove welds with backing and open V-groove welds. All welds will meet the American Welding Society (AWS) qualification standards. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 1.00 units. Pass/No Pass Only. Open Entry/Open Exit.

WLD 154 - Shop Practices for Welders I **1 - 2 Unit(s)**
Prerequisite(s): WLD 21 and NCCER Level I Welding Qualification
Co-requisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 40
Transfer Status: NT 51 - 102 hours Lab
This is a supervised lab experience for first semester welding program students. Students will practice skills in oxyacetylene welding (OAW), oxy-fuel cutting (OFC), shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and flux core arc welding (FCAW) in all positions (flat, vertical, horizontal and overhead). Students will also use a variety of freehand and automatic burning equipment including plasma arc cutting (PAC) units and air carbon arc cutting and gouging (CAC-A) units. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 2.00 units. Pass/No Pass Only. Open Entry/Open Exit.

WLD 156 - Shop Practices for Welders II **1 - 2 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 40, WLD 50, WLD 154 and NCCER Level II Welding Qualification
Co-requisite(s): WLD 28, WLD 30, WLD 32, WLD 34, WLD 36, WLD 42, WLD 56
Transfer Status: NT 51 - 102 hours Lab
This is a supervised lab experience for second semester welding program students. Students will practice skills in gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), flux cored arc welding (FCAW), and shielded metal arc welding (SMAW) on a variety of materials in the flat, vertical, horizontal, and overhead positions. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 2.00 units. Pass/No Pass Only. Open Entry/Open Exit.

WLD 158 - Shop Practices for Pipe and Tube Welders **0.5 - 1 Unit(s)**
Prerequisite(s): WLD 22, WLD 24, WLD 25, WLD 26, WLD 28, WLD 30, WLD 32, WLD 34, WLD 36, WLD 40, WLD 42, WLD 50, WLD 56, WLD 154, WLD 156, WLD 160 and NCCER Level III Welding Qualification
Co-requisite(s): WLD 55
Transfer Status: NT 25.5 - 51 hours Lab
This is a supervised lab experience for pipe and tube welders. Students will practice skills in shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW), gas tungsten arc welding (GTAW), oxyacetylene welding (OAW), and oxy-fuel cutting (OFC) processes on several piping systems. Performance standards will meet the American Petroleum Institute (API) 1104 and American Society of Mechanical Engineers (ASME) Section IX. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 1.00 units. Pass/No Pass Only. Open Entry/Open Exit.

WLD 159 - Shop Practices for Advanced Pipe Welders **0.25 - 1 Unit(s)**

Prerequisite(s): WLD 156 or WLD 158
Transfer Status: NT 12.75 - 51 hours Lab

This is a supervised lab experience for pipe and tube welders. Students will practice skills in shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW), gas tungsten arc welding (GTAW), oxyacetylene welding (OAW), and oxy-fuel cutting (OFC) processes on several piping systems. American Petroleum Institute (API) 1104, American Welding Society (AWS) and American Society of Mechanical Engineers (ASME) Section IX will be practiced. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 1.00 units. Pass/No Pass Only. Open Entry/Open Exit.

WLD 160 - Welding Certification Practices **1 - 2 Unit(s)**

Prerequisite(s): WLD 28, WLD 30, WLD 32, WLD 34, WLD 36, WLD 42, WLD 56, WLD 156
Transfer Status: NT 51 - 102 hours Lab

This is a supervised lab experience to help prepare students to meet the required standard for qualification papers in welding codes using American Welding Society (AWS) and American Society of Mechanical Engineers (ASME) specifications. Students will practice skills in shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core are welding (FCAW), and gas tungsten arc welding (GTAW), in all positions on plate and pipe, in preparation for weld performance tests with certified welding inspectors (CWI) or contractors. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 2.00 units. Pass/No Pass Only. Open Entry/Open Exit.

WLD 162 - Pipe and Tube Welding Certification Practices **1 - 2 Unit(s)**

Prerequisite(s): WLD 55, WLD 158
Transfer Status: NT 51 - 102 hours Lab

This is a supervised lab experience to help prepare students to meet the required standard for qualification papers in welding codes using American Petroleum Institute (API) 1104 and American Society of Mechanical Engineers (ASME) Section IX. Students will practice skills in shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW), gas tungsten arc welding (GTAW), oxyacetylene welding (OAW), and oxy-fuel cutting (OFC) processes on several piping systems in preparation for weld performance tests with certified welding inspectors (CWI) or contractors. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 2.00 units. Pass/No Pass Only. Open Entry/Open Exit.

WLD 164 - Welding Recertification Practices **0.25 - 1 Unit(s)**

Prerequisite(s): WLD 160 or WLD 162
Transfer Status: NT 12.75 - 51 hours Lab

This is a supervised lab experience to help students recertify to meet the required standard for qualification papers in welding codes using American Welding Society (AWS), American Petroleum Institute (API) 1104, and American Society of Mechanical Engineers (ASME) Section IX. Students will practice skills in shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW), gas tungsten arc welding (GTAW), oxyacetylene welding (OAW) processes on plate and several piping systems in preparation for weld performance tests with certified welding inspectors (CWI) or contractors. Since skills/proficiencies are enhanced by supervised repetition and practice, this course may be repeated to a maximum of 1.00 units. Pass/No Pass Only. Open Entry/Open Exit.

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Mathematics
B.S., M.S., CSU, Chico

Goodson, David (2001)
Retention Specialist
B.S., CSU, Chico
M.A., Chapman University

Gomes, Lynda (2016)
Nursing, Simulation Coordinator
B.S.N, M.S.N, CSU, Chico

Gonzalez Cuadros, Irma (2013)
Child Development and Family Relations
B.A., M.A., Pacific Oaks College

Grewal, Mandeep (2018)
Biology
M.S., B.S., CSU Chico

Gray, Danielle (2019)
Chemistry
B.S., CSU Chico
M.S. UC Santa Cruz

Grothe, Thomas (2005)
Communication Studies
B.A., CSU, Chico
M.A., San Francisco State University

Guleff, Virginia (2017)
Vice President of Instruction
B.A., San Jose State University
M.A., San Diego State University

Gunn, Lisa (2006)
Allied Health
B.A., Northern Illinois
M.P.A., College of Notre Dame

Hartman, Dena LaRee (2001)
Accounting
A.A., Butte College
B.S., M.B.A., CSU, Chico

Hartt, Phoebe (2006)
Remedial Mathematics
B.A., MA., CSU, Chico

Haslem, Marshall (2001)
Fire Science
B.S., CSU, Chico
M.S., Cal Poly, San Luis Obispo

Hauser, Juilet (2000)
Mathematics
B.S., CSU, Chico
M.A., CSU, Fresno

Hayano-Lavin, Saundra (1998)
Counselor
B.A., M.A., CSU, Chico

Hennessy, April (2013)
Learning Resource Specialist
B.A., M.A., CSU, Chico

Hensley, Arah (2015)
Nursing
B.S.N., CSU, Chico
M.S., Walden University

Henson, Leslie (1998)
English
B.A., St.. Vincent College
M.A., Ph.D., University of Florida

Herrick, Tamsen (2009)
Mathematics
B.S., UC, Davis
M.A., Fresno Pacific University
M.S., University of Phoenix

Hightower, Jennifer (2016)
First Year Experience
B.A., CSU, Chico
M.S., National University

Hoiland, Eric (1995)
Director, Assessment
B.A., UC, Berkeley
M.A., University of Vermont
M.A., University of La Verne

Holden, Jeffrey (2013)
Information Security Officer
B.S., CSU, San Bernardino

Holt, Robert (2005)
Automotive Technology
A.A., Butte College

Hovsepian, Vahan (2005)
Psychology
B.A., University of Southern California
M.A., Pepperdine University

Hubbard, Patti (2017)
Nursing
A.S., Butte College

Hutton, Terri (2003)
Family and Consumer Studies
A.A., Yuba College
B.A., CSU, Chico
M.A., Concordia University

Jenks, Julie (2018)
Biology
B.S., UC Davis
M.S., CSU East Bay

Jimenez, Stephanie (2013)
Title IX Coordinator
B.A., CSU, Chico

Johnson, Linda (2003)
Psychology
B.A., Western Washington University
M.A., CSU, Chico

Johnson, Tracy (2001)
English
B.A., M.A., UCLA
Ph.D., University of New Mexico

Jones, Kim (1988)
Director, Facilities Planning and Management
A.S., Butte College

Jordan, Jeffrey (2006)
Health, Kinesiology
B.S., Cal Poly, San Luis Obispo
M.A., CSU, Chico

Juhl-Darlington, Jennifer (2007)
Nursing
B.A., Mills College
M.S.N., San Francisco State University

Kekaha, Lisa (2008)
Reading, LEAD
B.A., M.A., CSU, Chico

Kelly, April (2016)
Communication Studies
B.A., M.A., CSU, Chico

Kelley, Michelle (2017)
Business Computer Information Systems
B.A., CSU, Chico
M.L.S, San Jose State University

Kem-Rivera, Toladette (2016)
Disabilities Specialist
A.A., Los Rios Community College
B.S., M.S., CSU, Sacramento

Kielb, Craig (2015)
Automotive
A.A., A.S., Butte College

Kirkwood, Kim (2018)
Cosmetology
B.S., University of Central Missouri

Klein, Steve (2014)
Director, Statewide Programs, CCCTC
A.A., Santa Ana College
B.A., CSU, Chico

Knifong, Shelly (2013)
Scheduling and Curriculum Analyst

Koehnen, Lori (2017)
Administration of Justice
B.A., University of the Pacific

Konuwa, Sophie A. (1993)
Director, Small Business Development Center, Business Management
B.A., Appalachian State University
M.S., Cardinal Stritch University

Laffins, Jaime (2008)
Nursing
A.S., Three Rivers Community College
B.S.N., M.S.N., CSU, Chico

LaGrave, Nicole (2008)
LEAD, Reading
B.A., M.A., CSU, Chico

Landry, Robert (2014)
Agriculture
B.S., Texas State University
M.A., UC, Davis

LaPine, John (2018)
English
M.A., B.A., Northern Michigan University

Lauer, Jim (1990)
Health, Kinesiology
B.A., M.A., CSU, Chico

Lechner, Gary (2008)
Biological Sciences
B.S., M.S., CSU, Chico

Lee, Sarah (2018)
Chemistry
B.S., San Jose State University
Ph.D., M.S., UC Riverside

Lillie, Penny L. (1995)
Physical Science, Chemistry
A.A., Butte College
B.A., M.S., CSU, Chico

Little, Chris (2016)
Executive Director, Human Resources
B.A., CSU, Chico
M.P.A., CSU, Dominguez Hills

Lloyd, Tierra (2015)
Mathematics
B.S., BYU
M.S., CSU, Chico

Lodewyk, Michael (2015)
Chemistry
B.S., Ph.D., UC, Davis

Lovelady, Kyle (2017)
Welding
A.S., Butte College

Lybbert, Jeannie (2002)
Assistant Director, Financial Aid and Veterans Services

Maclean, Gina (2013)
Respiratory Care
B.A., Oregon Institute of Technology

MacKinnon, Katherine (2003)
LEAD, Reading
B.A., University of the South, Tennessee
M.S., Georgia State University
Ph.D., Northern Arizona University

Maday, Randy (1993)
Health, Kinesiology, Athletics
Law Enforcement Academy
B.A., M.A., CSU, Chico

Martine, Corinne (2009)
Program Administrator, Foundation
B.A., CSU, Chico

Martinez, Analia (2019)
Learning Resource Specialist
B.A., CSU, Chico
M.A., CSU, Chico

Masterson, Thomas (1996)
Political Science
B.A., UC, Santa Barbara
M.A., Ph.D., Claremont Graduate University

Matiasek, Michael (2012)
Biological Sciences
B.A., University of Colorado Boulder
Ph.D., UC, Davis

Mavis, Mark (2002)
Mathematics
B.A., M.S., CSU, Chico

McCabe, Deborah (2015)
Communication Studies
B.A., UC, Berkeley
M.A., CSU, Chico
J.D., University of Iowa

McCartney, Cynthia (2006)
Project Manager
A.A., Lassen College, Brooks College
B.A., CSU, Chico

McDougall, Patrick (2019)
Physics
B.S., CSU, Chico
M.S., CSU, Fresno

McIntyre, Karen (2000)
Counselor
A.A., Yuba College
B.A., M.S., CSU, Chico

Medina, George (2000)
Automotive Technology

Meier, Alexandra (2003)
Art History, Art
B.F.A., M.A., CSU, Chico

Merz, Jesse (2016)
Drama
B.F.A., New York University
M.F.A., UC, Davis
M.A.T., George Fox University

Meyer, Laurie (2013)
Nursing
B.S.N., CSU, Chico
M.A., Western Govenors University

Mickelson-Beadle, Amy (2014)
Program Manager, CCCTC
B.A., M.A., Azusa Pacific University

Miley, Taressa (2010)
North Far North Regional Chair
B.S., CSU, Chico

Milinkevich, Kristin (2009)
Chemistry
B.S., CSU, Chico
Ph.D., UC, Davis

Mistry, Shahroukh (2009)
Biological Sciences
B.S., M.S., University of Baroda
M.S., University of TN, Knoxville
Ph.D., University of New Mexico

Modes, Mark Steven (1993)
Kinesiology
B.S., CSU, Fresno

Monlux, Carrie (2012)
Dean of Instruction
B.S., M.S., CSU, Chico
Ph.D., Texas A&M University

Mox, Andrea (2013)
Chief Technology Officer
B.A., CSU, Chico

Munson, Kelly (2002)
Advisor, Associated Students and Student Activities
B.S., Cal Poly, San Luis Obispo
M.Ed., Antioch/New England Grad School

Murawski, Nathen (2019)
Psychology
B.A., CSU, Sacramento
Ph.D., University of Delaware

Murphy, Brian (2017)
Director, Institutional Research
B.S., CSU, Sacramento
M.B.A., University of Nevada

Nash, Kristie (2002)
Manager, Contracts/Risk Management
B.S., University of Phoenix

Nelson, Jennifer (2015)
Business
B.A., M.B.A., CSU, Chico

Nichols, Lisa (2003)
Chemistry
B.S., CSU, Chico
M.S., Stanford University

Nutsch, Rita (2018)
Mathematics
B.S., University of Idaho
M.S., CSU Chico

Nuzum, Julie (2010)
Special Education, OLS
B.A., Simpson University
M.A., CSU, Chico

Oberle, Eric (2013)
Mathematics
B.A., San Diego State University
M.A., Central Washington University

Ohland, Angela (2018)
Communication Studies
B.A., CSU Stanislaus
M.A., CSU Chico

Old, Trudy (1999)
Deputy Sector Navigator, Health Workforce Initiative
A.S., Butte College

Ortega, Anna (2015)
Counselor (Veterans)
B.A., San Diego State University
M.S.W., CSU, Long Beach

Padilla, Michael (2015)
Mathematics
B.S., UCLA
M.S., CSU, East Bay

Panunto, Michael (2004)
Physical Sciences, Engineering
B.S., Temple University
M.S., Ph.D., University of Maryland

Peacock, Miles (2008)
Welding
B.S., Humboldt State University

Pitter, Russell (2018)
Welding
B.S., CSU Chico

Pothier, John (2018)
Cosmetology
B.A., CSU Chico

Price, Steve (2007)
Economics
B.A., CSU, Chico
M.A., University of San Francisco

Racheter, Bruce (2007)
Project Manager
B.A., University of the South

Radler, Andrew (2007)
Economics
B.S., Cal Poly, San Luis Obispo
M.P.A.,University of San Francisco

Rafferty, Annie (2008)
Director, Contract Ed Training and Development
B.S., Rider College, New Jersey
M.S., St.. Joseph's University, PA

Rapozo-Davis, Laura (2005)
Chairperson, Communication Studies
B.A., University of San Francisco
M.A., CSU, Chico

Rau, Heather (1990)
Scheduling and Curriculum Analyst
A.S., Butte College

Reinbold, Brian (2001)
Physical Science
B.S., CSU, Chico
M.S., San Jose State University

Renville, Allen L. (1976)
Vice President, Student Services
B.S., M.S., University of Oregon

Retes, Nancy (1991)
EOPS Counselor
B.A., San Francisco State University
M.S., CSU, Sacramento

Richer, Dorrie (2017)
Scheduling and Curriculum Analyst
A.S., Butte College
B.A., CSU, Chico

Rigsbee, Craig (1987)
Director, Athletics, Kinesiology
B.S., Utah State University
M.A., CSU, Chico

Riley, Mimi (2001)
Sociology
B.A., UC, Berkeley
M.A., UC, San Diego

Roberson, Carrie (2003)
Child Development, Life Management
B.A., CSU, Chico
M.A., National University, Sacramento

Robinson, Donald (2003)
Director, Industrial Technology
A.S., Butte College
B.S., CSU, Chico
M.S., Cal Poly, San Luis Obispo

Rodriquez, Raymond L. (1990)
Transfer Counseling Center Coordinator
A.A., Butte College
B.A., CSU, Chico
M.A., John F. Kennedy University, San Luis Obispo

Runyan, Amanda (2018)
English
M.A., B.A., CSU Chico
Ph.D., Northeastern University

Sanchez, Henry (2018)
Disabilities Specialist
B.A., CSU Chico
M.S. San Diego State University

Sathrum, Luke (2013)
Computer Science
B.S., Humboldt State University
M.S., CSU, Chico

Schmid, Melody (2018)
Biology
B.A., Colorado College
M.S., UC Davis
Ed.D., M.S., UC Davis

Scott, Kim (2016)
Career Life Planning, CalWORKs
B.A., M.P.A., CSU, Chico
M.S., University of LaVerne

Senat, Simone (2000)
Fine Arts
B.A., UCLA
M.F.A., San Jose State University

Shinar, Tammera (2015)
Director, Financial Aid and Veterans Services
B.S., University of Phoenix
M.B.A., Devry University, Keller Graduate School of Management

Shippen, David (2015)
Director, Statewide Programs, CCCTC
A.A., Butte College
B.A., M.P.A., CSU, Chico

Sicke, Rachel (2013)
Counselor
B.A., M.S.W., CSU, Chico

Silliman, William G. (2018)
Automotive, Diesel Technology
A.S., Butte College

Sills, John (2014)
Program Manager, CCCTC
B.A., CSU, Stanislaus

Simmons, Anna (2018)
Nursing
B.S., Emporia State University
M.S. Walden University

Slaughter, Clinton (2002)
Dean, Student Services
B.A., M.P.A., CSU, Chico

Sloan, Sandy (2008)
Business Computer Information Systems
A.A.S., B.S., Ph.D., Southern Illinois University Carbondale
M.P.A., CSU, Eastbay

Smallhouse,Sara (2018)
Art History
B.A., UC Irivine
M.A., CSU Chico

Smith, Michael A. (2015)
Allied Health, EMS
A.S., Butte College
B.A., CSU, Chico

Smith, Michael S. (2015)
Reference Librarian
B.S., Gannon University
M.L.S., San Jose State University

Snelling, Robert (2018)
Head Football Coach
B.S., Boise State University
M.A., Arizona State University
M.S., Louisiana State University

Snodgrass, Richard (2014)
Project Manager
B.A., Ohio State University

Soldate, John (2006)
Counselor
A.A., Santa Rosa Junior College
B.A., M.A., CSU, Chico
M.S., University of Southern California

Springer, Heather (2014)
English
B.A., Linfield College
M.A., Northern Arizona University

St.. Cin, Steven (2001)
Counselor
B.A., UCLA
M.S., CSU, Hayward

Stagner, Brenda (2008)
Foods and Nutrition
B.A., M.S., CSU, Chico

Stoup, Gregory (2019)
Vice President, Institutional Effectiveness
B.A., Case Western Reserve University
M.A., M.B.A. Case Western Reserve University

Suleski, Andy (1996)
Vice President, Administration, Chief Business Officer
A.A., Yuba College
B.S., CSU, Chico
M.B.A., CSU, Sacramento

Sun, Dakuan (2005)
Mathematics
M.E.D., M.S., Ph.D., Ohio University

Taylor, Amelia (2017)
Nursing
B.S., University of Texas, Arlington

Taylor, Cheryl (2014)
Manager, Grants Research and Development
B.S., CSU, Chico

Terra, Jill (2013)
Biological Sciences
B.S., University of Iowa
Ph.D., UCLA

Thomas, Brandy (2016)
Counselor
M.S., B.S., CSU Chico

Thomas, Russel (2017)
Welding
A.S., Butte College

Thompson, Dorene (2003)
Business Computer Information Systems
B.A., CSU, Sacramento
M.A., University of Phoenix

Trento, Jason (2000)
Physics, Physical Science
B.S., CSU, Chico
M.S., UC, Davis

Trolinger, Christine (2002)
History
B.A., Angelo State University
M.A., Texas Tech University

Trolinger, John Boyd (2001)
Computer Science
B.A., University of Texas
M.A., Texas Tech University

Troxel, Shannan (2015)
Communication Studies
B.A., M.A., CSU, Chico

Turner, Charles A. (1993)
History
B.A., UC, Riverside
M.A., UCLA
J.D., Newport University

Vader, Seth (2016)
Welding Technology
A.S., Butte College

Valle, Heather (2015)
Psychology
B.A., M.S., CSU, Chico

Valle, Llael (2019)
EOPS Counselor
B.A., CSU, Chico
M.S., CSU, Chico

Vandereyck, Julia (2015)
Director, Child Development Center
A.A., Butte College
B.A., Pacific Oaks College

Vang, Kia (2019)
EOPS Counselor
B.A., CSU, Chico
M.S.W., CSU, Chico

Vann,Serey (2018)
Counselor
M.S., B.A., CSU Sacramento

Vela, Mario (2002)
Athletic Trainer, Coordinator
A.A., Napa Valley College
B.A., University of the Pacific
M.A., CSU, Fresno

Vickery, Jess (2016)
Chemistry
B.S., UC, Santa Barbara
Ph.D., UC, Davis

Vogel, Shaaron (1996)
Nursing
B.S.N., CSU, Chico
M.S.N., CSU, Dominguez Hills

Wakim, Suzanne (2004)
Biological Sciences
B.S., Loyola University
M.S., UC, Davis

Walden, Bobby (2018)
Counselor, Veterans
B.A., CSU, Chico
M.S., University of Southern California

Wallace, Marty (2013)
Chemistry
B.S., Portland State University
M.S.W., CSU, Chico

Wannenmacher, Elizabeth A. J. (1992)
Chemistry
B.S., UC, Berkeley
Ph.D., UC, Davis

Ward, Teresa (2000)
First Year Experience, Coordinator, Professional Development, LEAD, Reading
B.A., UC, Davis
M.A., CSU, Chico
Ed.D., Grambling State University

Wentzell, Justin (2010)
Foreign Language
B.A., M.A., Northern Arizona University

White, Andrea (2013)
Biological Sciences
B.S., CSU, Chico
M.S., Ph. D., University of Illinois

White, Robert (2008)
Engineering, Physics, Curriculum Committee Chairperson
B.S., CSU, Chico
M.S., Ph.D., University of Illinois at Urbana-Champaign

Whitmore, Warren (2016)
Program Manager, CCCTC
B.A., CSU, Chico

Williams, Thomas (2016)
Agriculture Business
B.S., CSU, Chico

Wilmarth, Jared "Tip" (2001)
Environmental Horticulture, Agriculture
A.A., Butte College

Wilpolt, Mark (2018)
Mathematics
M.S., B.S., CSU Chico

Withrow-Clark, Robert (2016)
Learning Resource Specialist
B.A., CSU, Sacramento
M.A., University of Pacific

Wittsell, Rick (2012)
Natural Resources
B.S., M.S., CSU, Chico

Wood, Kelly (2005)
Biological Sciences
B.S., M.S., CSU, Chico

Worthington, Sean (2002)
Computer Science
A.S., Community College of the Air Force
B.S., Charter Oak State
M.S., University of Phoenix

Yaqub, Samia (1989)
Superintendent/President
B.A., UC, Davis
M.A., CSU, Chico
Ph.D., Oregon State University

Zorn, Linda (1999)
Executive Director, Economic and Workforce Development
B.A., University of Wisconsin

Zuniga, Brad (2002)
Dean, Student Services
B.A., CSU, Chico
M.S., University of LaVerne

Emeritus Faculty and Staff of the College

Acebo, Dr. Sandra Collins (1998-2003)
Superintendent/President

Adams, Idie (1976-2010)
Ceramics

Allen, Fred (1971-1998)
Dean of Instruction

Bachman, Deborah (2001-2014)
Counselor

Baird, Tom (1989-2010)
Automotive Technology

Baroni, Steve (1972-2010)
Counselor

Beachamp, Bobby, L. (1984-2006)
Automotive

Beard, Maria (1988-2013)
Administrative Assistant

Bentz, Doug (1975-2009)
Dean of Instruction

Billingsley, Edmond (1968-2004)
Assistant to the President

Bills, Albin (1978-2008)
Biological Sciences

Bizzle, Nancy (1981-2005)
Administrative Assistant

Boyer, Milton (1981-1992)
Dean of Instruction

Brandstatt, Dr. Gerald (1988-2003)
Computer Science, Drafting, Engineering

Brannon, Shirleigh (1995-2015)
Librarian

Brilts, Juri (2005-2013)
Grants Manager

Brown, Margaret (1986-2003)
Assistant Dean, Instructional and Community Services

Brown, Sue (1988-2009)
Human Resources Analyst

Brown, Wendy (1991-2013)
Language Education

Buchanan, Sharon (1986-2004)
Administrative Assistant

Buzza, Windsor M. (1971-2003)
Automotive Technology

Cabral, Patricia (1989-2015)
Mathematics

Campbell, Richard (1970-2015)
Mathematics

Carpenter, Neil (1988-2000)
Mathematics

Carver, Richard (1972-2008)
Supervisor, Transportation, Maintenance, Grounds

Cassell, Mary (1975-2005)
Physical Education, Chemistry

Cen, Luozhu (1999-2016)
Dean of Instruction

Chandler, Jerry Kirsch (1987-2008)
Reading

Chapman, Joyce (1992-2002)
Court Reporting, BCIS

Chase, Cathy (1995-2012)
English as a Second Language (ESL)

Clark, Jean (1981-2006)
Language, Education and Development (LEAD), Reading

Clark, Linda (1973-2006)
Nursing

Clark, Richard Allen (1968-1992)
Spanish

Cole, Suzie (1992-2010)
Administrative Secretary

Consol, Dr. Alfred (1968-1995)
Humanities, Language Arts, Foreign Languages

Couch, Ken (1974-2015)
Computer Science

Cremer, Doug (2001-2013)
Director Information Technology

Cripe, Jo Anne (2000-2016)
Child Development/Life Management/ First Year Experience

Dalton, Claire (1971-2008)
Business Computer Information Systems

Danielson, David (1993-2016)
Mathematics/Dean for Student Learning

Davidson, Carolyn (1996-2016)
Language Education and Development (LEAD), Reading

Davis, Genny (1974-2005)
Administrative Assistant

Dean, Dr. Betty (1990-1998)
Superintendent/President

Denney, Jean (1974-1997)
Physical Education, Health, Recreation and Dance

Donaldson, Barry (1990-1992)
Director, Glenn County Center

Dunbaugh, Michael (2005-2012)
Dean of Instruction Public Safety Training Center

Dunlap, Marty (1984-2007)
Assessment

Dunn, Richard (1981-2010)
Coordinator, Disabled Students Programs and Services

Eggert, Steven (1974-2001)
Physics

Ekins, Dr. Roger (1986-2009)
English

Erwin, Keith (1967-1986)
Business

Evans, Arlene (1983-1987)
Vocational Nursing

Felling, Nancy (1986-1993)
Public Information Officer

Ferretti, Remo (1968-1992)
Physical Education, Recreation, Health

Findlay, Michael (1988-2015)
Anthropology

Flesher, Douglas D. (1970-1992)
Agriculture

Flores, Rudy (1993-2013)
Dean of Instruction

Forsmith, Julianne (1969-1997)
Language Arts, Drama, Speech

Franchi, Laureen (Reenie) (1989-2016)
Payroll Technician

Fugle, Gary (1989-2013)
Biology

Garten, Dorothy M. (1970-2003)
Business Education

German, Barbara (1971-1997)
Food Service Manager

Gish, Carole (1993-2008)
Director of Admissions and Records

Goberstein, Faina (1983-2012)
Mathematics

Gordon, Beverley (1978-2003)
Business Computer Information Systems

Gray, Dr. Donald, M. (1989-2006)
Assistant Dean, Admissions and Records

Griswold, Nancy (1971-1996)
Executive Director, Butte College Foundation

Guffy, Annette (1984-2012)
Administrative Assistant

Hagen, Lyman (2001-2014)
Agriculture

Hamberg, Lorraine (1980-2012)
Admissions and Records

Hannan, Gail (1998-2014)
LEAD

Hansen, Bonnie (1987-2010)
Administrative Secretary II

Hasson, Dian (1969-2010)
Political Science

Hemenway, Phillip (1977-2006)
English

Hicks, Carolyn (1987-2007)
Nursing

Hoffman, Glenn (1976-2011)
Sociology

Hoiland, Scot (1984-2013)
Geography

Holloway, Valerie (2004-2015)
Welcome Center

Holman, Howard "Pete" (1971-1998)
Dean of Instruction

Holt, Yolanda (1974-1998)
English as a Second Language

Hood, Bruce (1979-2000)
Speech

Hopkins, John B. (1969-1986)
Mathematics

Hradecky, Carolyn (1975-2000)
Assistant Director, Human Resources

Hughart, Norm (1976-2010)
Business

Hughes, Margaret (1968-2005)
English

Hunter, Dee-Ann (1986-2003)
Supervisor, Shipping/Receiving and Print Shop

Hyde, Dennis (1980-2011)
Alcohol and Drug Studies

Ivey, Dennis (1994-2016)
Political Science

Jackson, Matthews, D. (1973-2006)
Vice President of Educational and Student Programs and Services

Jacobson, Herbert (2003-2013)
Agriculture

Jennings-Severe, Peggy (1984-2015)
Dean, Recruitment, Outreach, Student Life

Kamman, Barbara (1971-2004)
Physical Education

Kelly, Macy (1988-2013)
Nursing

Kincheloe, Laurie (1983-2015)
Mathematics

Kostiz, Reggie (1982-2008)
Business Computer Information Systems

Kraemer, Angela (1998-2012)
English

Larson, Peter (1968-1999)
Business, Accounting, Computers

Lee, Garrick (1970-2001)
Geography, Physical Science (Meteorology), Mathematics

Lehmann, Sharon (1984-2001)
Nursing

Leitner, Susan (1968-2005)
Business Computer Information Systems

Lemley, Jack (1988-2015)
Director, Auxiliary Services

Lenhoff, Donna (1981-2005)
Language Education and Development (LEAD)

Lerch, Myra (1990-2009)
Disabled Students Programs and Services

Lewis, Janice (1974-1993)
Director of Finance

Liddell, Michael (1969-2004)

Director, Physical Education and Athletics

Lugo de Arnsdorf, Gabriella (1998-2011)
Language Education and Development (LEAD)

Lyssy, Chet (1970-1998)
Physical Education

Machuga, Ric (1985-2016)
Philosophy

Manthey, Mae (1984-2002)
Language Education and Development (LEAD)

Martin, Robert (1975-1999)
Physical Education

Mason, Paul (1996-2013)
Biology

Matlock, Ernest (1976-1992)
Assistant Superintendent, Vice President for Instruction

Mattison, Dr. G. David (1989-2003)
Geology, Physical Science

Maxey, Barbara (1989-2008)
Assistant Dean, Contract Education

McKinnon, Gloria (1972-1998)
Office Information Systems

McManus, Beverly (1985-2010)
Supervisor, EOPS/CARE

McNelis, Steven (1976-2008)
Administration of Justice

McSpadden, Marie (2002-2018)
Curriculum & Scheduling Analyst

Mead, Debbie (1988-2012)
Administrative Assistant

Milosevich, Silvia (1989-2008)
Foreign Language, Honors, English

Moore, Michael (1973-2000)
Supervisor, Campus Police

Morin, Romeo (1968-1998)
Counselor

Nakagawara, Quentin (1969-2001)
Agriculture and Natural Resources, (Hort)

Neath, Alice (1985-2004)
Mathematics

Nelson, Stevens (1968-2001)
Sociology

Newlin, Merlyn (1984-2008)
Career and Employment Services Career Center

Newman, Kathy (1973-2005)
Biology

Newman, Larry (1986-2004)
Dean, Instructional Services

Newman, Lena (1987-2000)
Administrative Assistant, Instruction

Oakes, Gary (1968-2006)
Mathematics/Computer Science

Oba-Winslow, Carol (1987-2015)
Disabled Students Programs and Services

Osborne, John (1975-2010)
Language Arts

Parker, Becky (1990-2010)
Account Clerk

Parker, John (1970-2005)
Supervisor Facilities

Pascale, Pat (1996-2008)
Shipping and Receiving

Payne, Carl David (1998-2015)
Communication Studies

Pepperdine, Debra (1988-2008)
Human Resources Benefits Analyst

Petersen, Owen (1970-2001)
Agriculture and Manufacturing

Phillips, Lynn (1979-2009)
Nursing

Rasmussen, Mike (1977-2010)
Dean, Special Programs

Rice, Raymond (1968-1992)
Director of Maintenance and Operations

Riggle, Leonard L. (1968-1988)
Automotive Technology

Rivas, Margaret (1990-2004)
Director, Adult Ed and Community Services

Rodgers, Irene Fell (1971-1992)
Mathematics

Rogers, Donald Edward (1968-1990)
Coordinator of Counseling

Rojas, Judith (1993-2010)
Spanish

Sawyer, Tom (1991-2010)
Sociology

Schmidt, Jim (1974-2008)
English/Music/Journalism

Shannon, Ann (2003-2016)
Learning Resource Specialist

Sincoff, Steven (1998-2013)
Physical Sciences

Smith, Robert D. (1969-1995)
Physics

Snidow, Neal (1987-2009)
English

Snow, Sue (1980-2006)
Payroll Technician

Solomon, Daniel (1971-2005)
Respiratory Care Program

Speed, Ken (1985-2016)
Counseling

Spring, Helen (1968-1983)
Reference Librarian

Stanley-Hall, Carol (1975-2013)
Physical Education

Stenvall, Paula (1990-2016)
Human Resources Analyst

Stull, Will (1991-2003)
Sculpture, Art Appreciation

Swenson, Catherine (1999-2014)
Director, Economic Workforce Development

Tappenbeck, Jim (1989-2003)
Learning Center Coordinator

Taskiran, Ayse (2005-2017)
Anthropology

Taylor, Karen (1999-2015)
Accounting

Thompson, Elaine (1974-1992)
Director of Accounting/Budget

Travis, Patricia (Patty) (2001-2015)
Administrative Secretary III

Van Dame, Maggie (1995-2010)
Manager, User Support Services

Van Der Ploeg, Dr. Diana (2003-2011)
Superintendent/President

Voyles, Hannie (1971-2000)
English

Weaver, Donna (1987-2017)
Dean of Instruction

Weiss, Carol (1981-2018)
Payroll Supervisor

Werner, Marianne (1996-2008)
English

Wheeler, Edward (1968-2000)
Anthropology

White, Jack (1970-1996)
Mathematics

Whitehouse, Dr. James M. (1997-2003)
Dean, Transfer and General Education

Winslow, Verla (1972-2009)
Counselor

Wren, Anthony (1980-2017)
Physical Science, Chemistry

Yarosevich, Katya (1988-2013)
Biology

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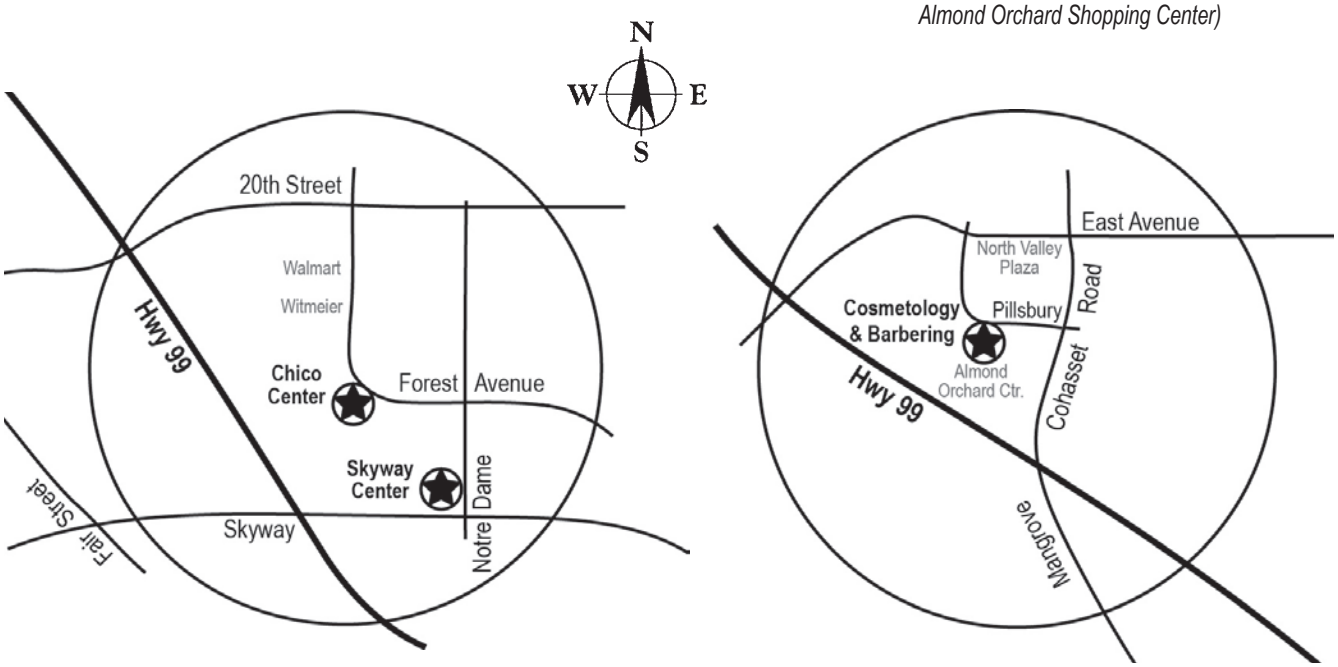
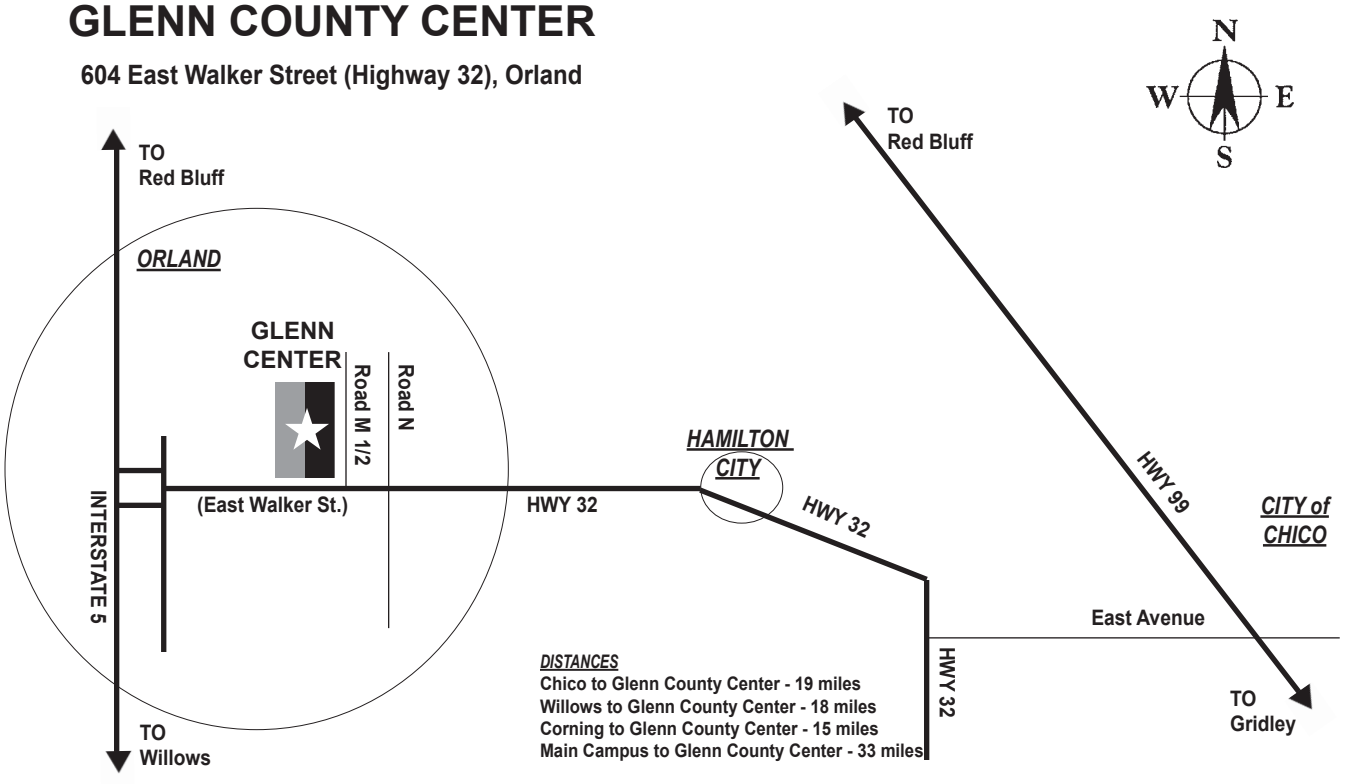
CHICO CENTER • SKYWAY CENTER • COSMETOLOGY & BARBERING

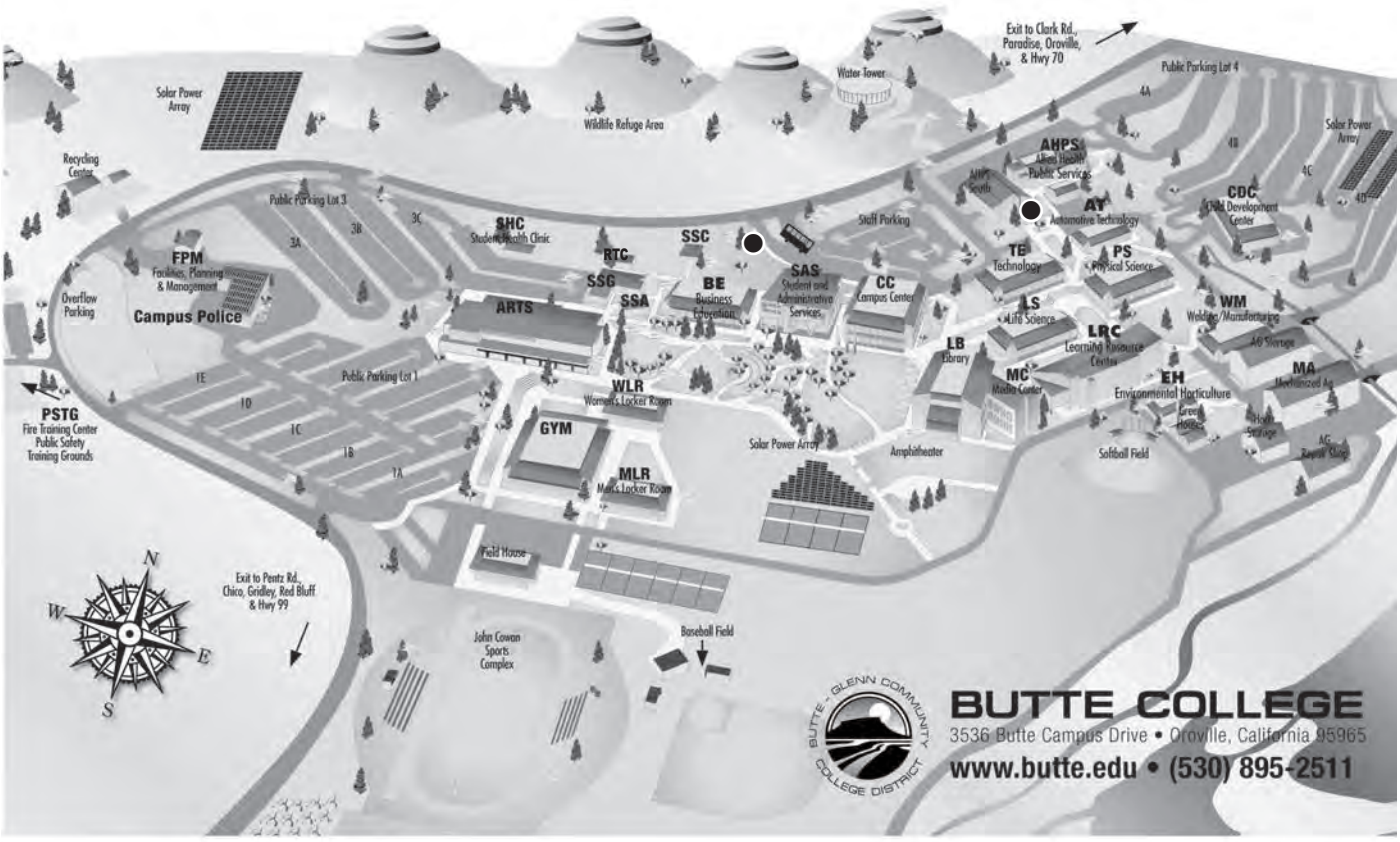
2320 Forest Avenue — **2480 Notre Dame** — **2201 Pillsbury Road** *(located in the Almond Orchard Shopping Center)*



GLENN COUNTY CENTER

604 East Walker Street (Highway 32), Orland





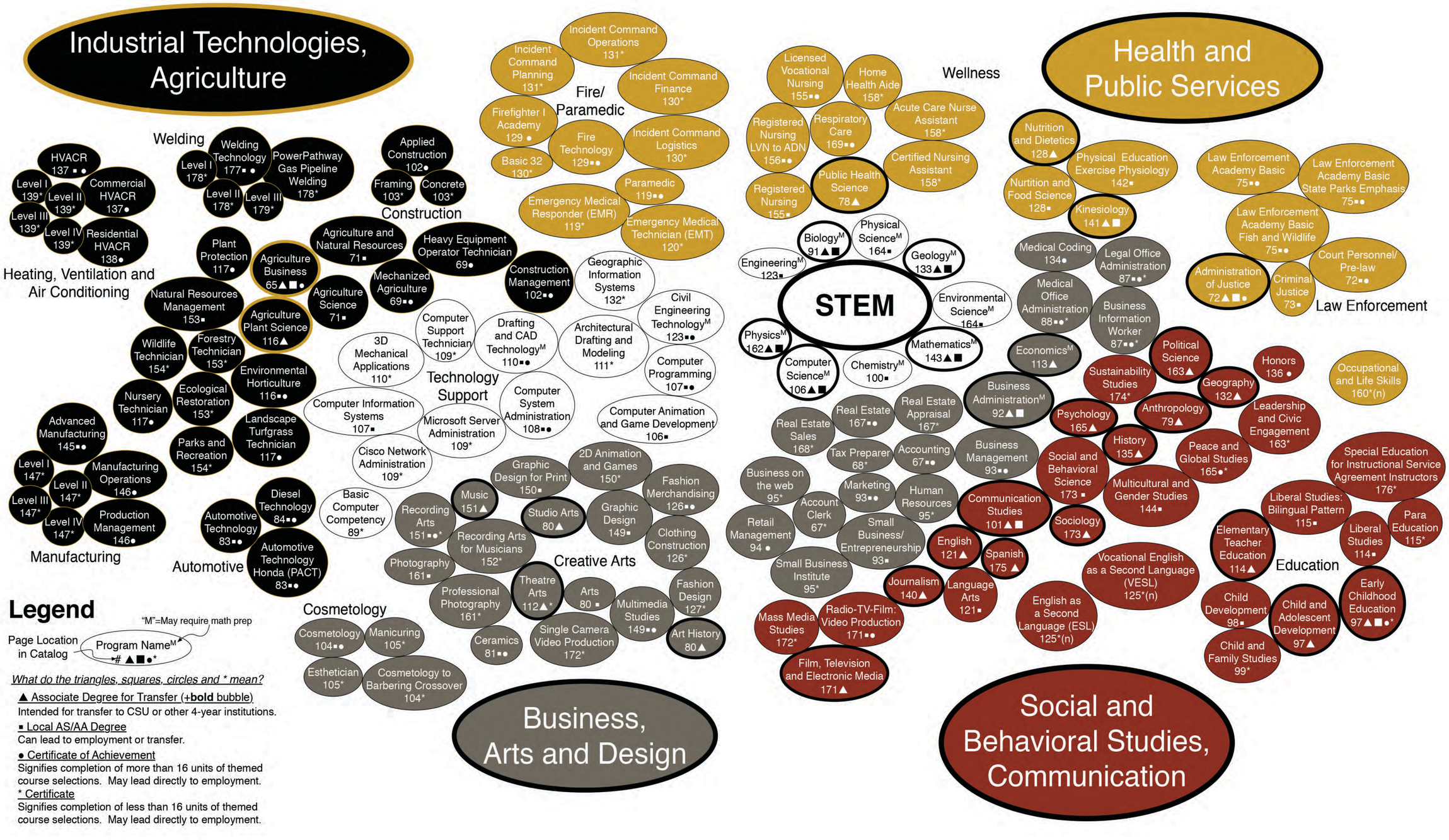
Butte College Main Campus Map, Listing of Buildings and Services

Administration ..... SAS
Admissions & Records ..... SAS
Allied Health/Public Service Center ..... AHPS
Arts ..... ARTS
Assessment /Testing Office ..... SAS
Associated Students CC
Athletic Office ..... WLR
Automotive Technology ..... AT
Broadcast & Electronic Services ..... MC
Bookstore CC
Business Office ..... SAS
Business Education ..... BE
Bus Loading/Unloading ..... 🚌
Cafeteria CC
Campus Center CC
Campus Information ..... SAS
Career Center ..... SAS
Car Pool Permits ..... FPM
Center for Academic Success (CAS) ..... LRC
Center for Excellence (CFE) ..... LB
Child Development Center ..... CDC
College Police ..... FPM
Counseling ..... SAS
Coyote Gallery ..... ARTS
Cultural & Community Center ..... SSF
Disabled Student Programs & Svcs (DSPS) ..... SAS
Extended Opportunity Program & Svcs (EOPS) SAS
Facilities, Planning & Management ..... FPM
Financial Aid ..... SAS
Fire Training/Tower/Public Safety Training ..... PSTG
Food Service CC
Foundation (Scholarships) ..... SAS
Gymnasium ..... GYM
Environmental Horticulture ..... EH
Human Resources ..... SAS
Instruction, Office of ..... SAS
Job Placement ..... SAS
Learning Resource Center ..... LRC
Life Science ..... LS
Library, Reference Library ..... LB
Lost & Found ..... FPM
Mechanized Agriculture ..... MA
Media Center ..... MC
Men's Locker Room ..... MLR
Orientation ..... SAS
Kinesiology ..... GYM
Physical Science ..... PS
Print Shop ..... FPM
Regional Testing Center ..... RTC
Safe Place ..... SSA
Service Learning ..... SAS
Shipping & Receiving ..... FPM
Student & Administrative Services ..... SAS
Student Activities CC
Student Health Clinic ..... SHC
Student Welcome Center ..... SAS
Student Services CC
Sustainability Resource Center ..... SSG
Swing Space A ..... SSA
Swing Space C ..... SSC
Swing Space F ..... SSF
Swing Space G ..... SSG
Transfer Counseling Center (TCC) ..... SAS
Transportation ..... FPM
TRiO ..... SAS
Veterans Services ..... SSC
Technology ..... TE
Welding/Manufacturing ..... WM
Women's Locker Room ..... WLR
Designated Smoking Areas ..... ●

Butte College Program Map

2019-20 Communities of Interest Index

Discover Your Path:
With over 1000 different courses combining to form over 100 academic programs, Butte College has a path for you. Each program is unique, but many programs share courses and students with overlapping interests. This diagram captures some of these similarities with both color and closeness. Browse through our 5 Communities of Interest to see how Butte College's diverse offerings can help match your interests to a fulfilling career.



Legend

"M"=May require math prep

Page Location in Catalog

Program Name[M] *# ▲■●*

*What do the triangles, squares, circles and * mean?*

▲ Associate Degree for Transfer (+**bold** bubble)
Intended for transfer to CSU or other 4-year institutions.

▪ Local AS/AA Degree
Can lead to employment or transfer.

● Certificate of Achievement
Signifies completion of more than 16 units of themed course selections. May lead directly to employment.

* Certificate
Signifies completion of less than 16 units of themed course selections. May lead directly to employment.

2019-2020 Catalog

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