2012-2013 CATALOG

CERRO COSO
COMMUNITY COLLEGE

EDUCATE, INNOVATE, INSPIRE, SERVE
Accreditation

Cerro Coso Community College
is accredited by the
Western Association of Schools and Colleges
and is fully approved by the
Board of Governors,
California Community Colleges
and other state and federal agencies.
The University of California,
California State Universities
and other Universities
and colleges grant credit to lower division
transfer courses completed at
Cerro Coso Community College.
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Welcome to Cerro Coso Community College. We are excited that you made us your choice and we want to make your time with us a meaningful experience that will assist you in reaching your goal. The college community at Cerro Coso is made up of dedicated faculty and staff at all our campuses and centers. You are provided the opportunity to embrace learning inside and outside of the classroom and will find that your education and services are not place and time bound if you choose to take advantage of our virtual campus, ‘CCOnline’.

The mission of Cerro Coso Community College is to educate, innovate, inspire and serve. As a student you will experience this through the learning environment and by the support services provided you by our excellent faculty and support staff. Many of our staff are alumni of Cerro Coso and have chosen to work at the college to serve and encourage you along the way.

There are many opportunities to become involved while attending Cerro Coso. You can take part in student senate/government and clubs, student activities, student ambassadors, attend sporting events, guest lectures, or become members of the Honors Program, Phi Theta Kappa, as well as travel abroad with faculty leaders. Information about college events and these groups can be found on our web site, http://www.cerrocoso.edu.

You will find that your educational experience to be one of excellence whether you are preparing to transfer, to become gainfully employed, or to gain additional workforce skills. Most importantly we encourage you to take full advantage of the community college experience we offer and to become a lifelong learner.

I wish you success as you embark upon this higher education journey and look forward to celebrating each milestone you reach!

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Ms. Natalie Dorrell, Manager, Public Relations, Marketing, and Development
Ms. Jennifer San Nicholas, Manager, Child Development Centers
Mr. Clint Dougherty, Manager, Human Resources
Ms. Lisa Couch, Manager, Accounting and Business Office
Mr. John Daly, Manager, Maintenance and Operations
Ms. M. Louise Farmer, Administrative Assistant to the President
History

Cerro Coso Community College was established in 1973 as a separate college within the Kern Community College District. Cerro Coso Community College has five instructional sites (Eastern Sierra Centers in Bishop and Mammoth Lakes, Indian Wells Valley, Kern River Valley, and South Kern), which together form the largest geographical service area (18,000+ square miles) of any community college in California and which serve a population of approximately 85,000. A leader in online education, Cerro Coso Community College has been offering online courses since 1997 and offers 16 Associate degrees entirely online and as many as 160+ courses online each year, with approximately 180 sections per semester. Cerro Coso Community College is a member college of the Kern Community College District and is fully accredited by the Western Association of Schools and Colleges and approved by the University of California and the State Department of Education.

Values

At Cerro Coso Community College, we value:

- **Student learning** and student success in all areas of endeavor;
- **Creativity** and the implementation of best practices in a rapidly changing world;
- **Accountability** to our students for their learning experience, our communities for good stewardship of public funds, and to each other through the participatory governance process;
- **Diversity** in our students, our communities, our environment, and our programs and services;
- **Our Communities** and the partnerships and relationships we build with them; and
- **Our Faculty and Staff** who turn the wheels of learning.

Vision

Cerro Coso Community College will be recognized as a leader in higher education, a source of programs and services for tomorrow’s workforce, a model for student learning, and a partner with its diverse clientele and communities.

Mission

Our mission is to educate, innovate, inspire and serve. We demonstrate our commitment to student learning and accomplish our mission as we:

- **Educate** students who seek transfer for baccalaureate degrees, career and technical education, workforce training, college preparation, and lifelong learning;
- **Innovate** through our instructional processes, delivery systems, and business operations;
- **Inspire** our students to strive for excellence in achieving their aspirations, our employees to deliver quality instruction and learning support, and our communities by supporting economic development and responding to their needs in a timely and professional manner; and
- **Serve** our clients and our communities with relevance, timeliness, and excellence.

Strategic Goals, 2010-2012

The Cerro Coso Community College Strategic Plan for 2010-2012 focuses on six strategic goals. These goals are:

1. Improve our response to community needs through customized educational opportunities, area workforce development, and quality student services.
2. Improve service to under-prepared students and increase their success rates.
3. Seek opportunities to enhance the development and use of resources.
4. Build upon our culture of accountability, responsibility, and civility amongst all stakeholders.
5. Identify and implement principles of effective communication in support of our mission.
6. Recruit, retain, and develop employees who uphold the Cerro Coso Community College culture of excellence.

These goals focus heavily on integrating the planning and improvement with assessment.
of our student learning outcomes and program review. Several of the initiatives and action items will serve to improve the manner in which the college serves its students, its communities, and its employees, and fulfills its mission.

**Accreditation**

Cerro Coso Community College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, 10 Commercial Boulevard, Suite 204, Novato, California, an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. It meets all standards of the California State Department of Education. The college and its programs are also approved by the California Community College Board of Governors, the Board of Vocational Nursing and Psychiatric Technicians, and the California Department of Education for the enrollment of veterans. The University of California, the California State University System, and other universities and colleges give full credit for appropriate courses completed at Cerro Coso Community College.

**Student Right-To-Know**

In compliance with the Student Right-To-Know (SRTK) Act of 1990 (Public Law 101-542), it is the policy of the Kern Community College District and Cerro Coso Community College to make available its completion and transfer rates to all current and prospective students. These rates are based on a limited cohort (or group) of students which are tracked for a three-year period. The cohort is limited because it includes only students who entered Cerro Coso Community College in the fall term as first-time, full-time students seeking a degree, certificate or transfer. Students included in the 2007 SRTK Cohort were tracked from Fall 2008 through Spring 2010 to determine their academic outcomes during the time period.

A student is included in the Completion Rate if they attained a certificate or degree or became “transfer prepared” within the three-year period. Transfer-prepared is defined as having completed 60 transferable units with a GPA of 2.0 or better.

A student is included in the Transfer Rate if, within the three-year tracking period, they transferred to another postsecondary institution prior to receiving a certificate or degree or becoming “transfer-prepared”.

The table below compares Cerro Coso Community College’s Completion and Transfer Rates to the statewide community college average.

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<th>2007 SRTK Cohort</th>
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<tr>
<td>Cerro Coso</td>
<td>State Wide</td>
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<tr>
<td>Completion Rate</td>
<td>16.36%</td>
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<tr>
<td>Transfer Rate</td>
<td>14.49%</td>
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These rates do not represent the completion and transfer rates of the entire student population at Cerro Coso Community College, nor do they account for student outcomes occurring after this three-year tracking period. For more information on SRTK methodology, interpretation, and rates at other community colleges, you can visit the College Chancellor’s Office website at [http://srtk.cccco.edu/](http://srtk.cccco.edu/).

**Equal Employment Opportunity Statement**

In accordance with the requirements of the Civil Rights Act, Cerro Coso Community College provides services and benefits to students regardless of race, color, national origin, ancestry, gender, age, religion, marital status, medical condition, or disability. The lack of English language skills will not be a barrier to administration and participation in vocational education programs. (Title VI and VII of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 503 and 504 of the Rehabilitation Act of 1973, as amended and the Americans with Disabilities Act of 1990.)

All persons have the right to seek admission to and complete an educational program at Cerro Coso Community College. Interference with students’ access and successful completion of their education by any person through unlawful discriminatory conduct will not be tolerated. The college will initiate disciplinary action against persons found to have interfered with a students’ education through any means of illegal or immoral intimidation. Kern Community College
District will afford reasonable accommodations for applicants and employees to enable qualified individuals to perform essential job functions. Students with disabilities will be accommodated to ensure accessibility and full participation in educational programs. To request reasonable accommodations, applicants and employees should contact the Human Resources Manager at (760) 384-6229. Students should contact the Special Services Office at (760) 384-6250.

Unlawful Discrimination

Inquiries regarding the equal opportunity policies, the filing of grievances, reasonable accommodation in employment, academic adjustments or auxiliary aids and services, or to request a copy of the grievance procedures covering discrimination complaints, may be directed to:

Vice President of Student Services Coordinator, Title IX (pertaining to gender equity, including sexual harassment)

Coordinator, Title VI and Section 504/ADA (pertaining to race, color, or national origin, and disability)

Cerro Coso Community College
3000 College Heights Blvd.
Ridgecrest, CA 93555
(760) 384-6249
(760) 384-6110 (TDD Only)

A complaint of alleged unlawful discrimination may be filed within one year of the alleged discrimination. For complaint forms or additional information, contact one of the following:

Human Resources Manager
Cerro Coso Community College
3000 College Heights Blvd.
Ridgecrest, CA 93555
(760) 384-6229
(760) 384-6110 (TDD Only)

Additional inquiries pertaining to federal, state, and local equal opportunity laws, and the governing board policies of Cerro Coso Community College or Kern Community College District (KCCD Board Policy Section 11-D) may be directed to the following office:

Vice-Chancellor
Kern Community College District
2100 Chester Avenue
Bakersfield, CA 93301
(661) 336-5140

Declaración De Igualdad De Oportunidad

De acuerdo con los requisitos de la acta de derechos civiles, Cerro Coso Community College provee services y beneficios a todos estudiantes sin impedimento de raza, color, origen nacional, ancestria, género, edad, religión, estado civil, condición marital, o impedimento. La falta de capacidad de hablar inglés no ser un obstáculo par la admisión vocacionales. (Título VI y VII del Acto Civilde Derechos Civiles de 1974; Titulo IX de los Enmiendas de Educación de 1972; las Secciones 503 y 504 del Acto de Rehabilitation del 1973, como modificado.)

Toda persona tiene el derecho de solicitar admisión y completar un programa educativo en Cerro Coso Community College. No se tolerada interferencia alguna con el acceso y termino exitoso de su educación a ninguna persona o estudiante por medio de conducta discriminatoria ilegal. El colegio iniciara acción disciplinar contra las personas que sean descubiertas interferiendo con la educación de los estudiantes por medio de cualquier forma de intimidación ilegal o inmoral.

Discriminación ilegal

Para mayor información acerca de la política de igualdad de oportunidades, la presentación de una queja, las instalaciones adecuadas en el empleo, los ajustes académicos o los servicios y ayudas auxiliares, o para pedir una copia de los procedimientos de quejas relativas a la discriminación, pueden dirigirse a:

Vice Presidente de los Servicios del Estudiante
Coordinadora del Título IX (relativo al sexo)
Coordinadora del Título VI y Sección 504/ADA (relativos a raza, color, nacionalidad o discapacidades).

Cerro Coso Community College
3000 College Heights Blvd
Ridgecrest, CA 93555
(760) 384-6249
(760) 384-6110 (TDD Only)

Una queja de discriminación ilegal supuesta se puede ser registrada dentro del término de un año de ocurrida la supuesta discriminación. Para obtener formas de quejas o información adicional usted puede ponerse en contacto con la siguiente persona:

Human Resources Manager
Cerro Coso Community College
3000 College Heights Blvd.
Ridgecrest, CA 93555
(760) 384-6229
(760) 384-6110 (TDD Only)
Para preguntas adicionales referente a las leyes acción afirmativa y igualdad de oportunidad, ya sean al nivel federal, estatal, o local, y referente a la política del consejo de gobierno de Cerro Coso Community College o del Distrito Escolar de la Comunidad de Kern, puede ponerse en contacto con siguiente oficina:

Vice-Chancellor, Human Services
Kern Community College District
2100 Chester Avenue
Bakersfield, CA 93301
(661) 336-5140

Students With Disabilities

Cerro Coso Community College will make reasonable accommodations and/or academic adjustments to ensure that students with disabilities have an equal opportunity to participate in the college’s courses, programs, and activities, including extracurricular activities. Students with disabilities who are requesting academic accommodations or auxiliary aids should contact the Special Services Office at (760) 384-6250. Participation by students with disabilities in Special Services is voluntary. Any student choosing not to participate in the program may elect an alternate path for services through the Office of Student Learning. See the Vice President of Student Services for options or alternatives to services otherwise provided by the Special Services Office.

Confidentiality Of Student Records

Student records are protected by the Family Educational Rights and Privacy Act, state law, and Kern Community College District Board Policy from access by casual or unauthorized persons. Access to records is provided to the student, appropriate college staff members, persons having written consent of the student, or by court order or subpoena.

The Privacy Act affords Cerro Coso Community College the right to release such “Directory Information” as the student’s name, address, e-mail address, photographs, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended. If a student does not want this information released, the student must check the confidentiality requested box on the admission/update forms.

Present and former Cerro Coso Community College students are given the right to inspect, review, and challenge the contents of all educational records related to them. No information contained in their educational records may be released without their consent, except to those agencies or individuals authorized by the Act.

Students wishing to inspect, review, or challenge any of their educational records must contact Admissions and Records (760) 384-6357.

Policy Concerning Sexual Harassment

Cerro Coso Community College is fully committed to all federal, state, and local human rights and equal opportunity laws. Title VII of the Civil Rights Act of 1964, amended 1991, and Title IX of the Educational Amendments of 1972 are strictly enforced. This legislation specifically prohibits sexual discrimination in employment, and educational programs and services respectively.

Students have the right to gain access to and complete an educational program at Cerro Coso Community College. Interference with students’ admission to and successful completion of their education by any person through unlawful sexual conduct will not be tolerated. The college will initiate disciplinary action against persons found to have interfered with a student’s education through any means of sexual harassment or intimidation.
**ADMISSION AND REGISTRATION**

**ADMISSION AND REGISTRATION**

**GETTING STARTED AT CERRO COSO COMMUNITY COLLEGE**

**Academic Eligibility**

Graduates of accredited high schools, holders of a Certificate of Proficiency or GED certificates, or persons 18 years of age or older who are able to profit from the college instructional programs are eligible for admission to Cerro Coso Community College. Admission with previously earned credits will be granted upon evidence of official transcripts showing satisfactory scholarship and an honorable dismissal from an accredited postsecondary institution. The student should ask all previous colleges of attendance to send transcripts directly to Cerro Coso Community College’s Admissions and Records Office.

**Special Admission for K-12 Students**

Students who are enrolled in K-12 programs may be admitted by Special Admission-Attending this college while still enrolled in grades K-12 upon recommendation of the school principal or designee, and with parent consent. Cerro Coso Community College is authorized to restrict the admission or enrollment of K-12 students based on age, completion of a specified grade level, and demonstrated eligibility for instruction using approved assessment methods and procedures adopted by the Board of Governors. After submitting a college application or update form, students must obtain a Concurrent Enrollment Form, from the Cerro Coso Community College Counseling Office, have it appropriately filled out by their school principal or designee, secure a parent signature, and then meet with a college counselor for approval. Cerro Coso Community College enrollment fees of $46/unit are waived for K-12 students. Non-resident tuition will apply if the K-12 student is an international student, is not a California resident or has not lived in California for one year and one day prior to enrolling at Cerro Coso Community College. Please see the Tuition and Fees section in this catalog. By enrolling in a college level course, the K-12 student is agreeing that he or she will be responsible for communicating with their instructors, studying at least two hours for every hour of course (minimum), turning in college level assignments complete and on time, and purchasing all textbooks within the first week of course(s). If the K-12 student is uncertain about carrying out any of these responsibilities, a college course may not be the best option for him or her, at this time. Please contact a college counselor if you have any questions.

**Residency Determination**

A ‘resident’ is a student who has residence in the state of California for more than one year immediately preceding the residence determination date which is the day before the first day of courses.

The resident of any California community college district may attend a community college in any other district in this state, subject to generally applicable admission criteria, and subject to any restrictions set forth in a notice of restriction issued by a district.

In order to determine a person’s place of residence, reference is made to the following statutory rules:

1. Every person has, in law, a residence.
2. Any person who is married or is 18 years of age or older and under no legal restriction to do so, may establish residence.
3. In determining the place of residence the following rules are to be observed:
   a. There can be but one place of residence.
   b. A residence is the place where one remains when not called elsewhere for labor or other special or temporary purpose, and to which he/she returns in seasons of repose.
   c. A residence cannot be lost until another is gained.
d. The residence can be changed only by the union of act and intent.

e. A man or a woman may establish his or her residence. A woman’s residence shall not be derivative from that of her husband.

f. The residence of the parent with whom an unmarried minor child maintains his or her place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, his or her residence is that of the parent with whom he or she maintained his/her last place of abode, provided the minor may establish his or her residence when both parents are deceased and a legal guardian has not been appointed.

g. The residence of an unmarried minor who has a parent living cannot be changed by his or her own act, by the appointment of a legal guardian, or by relinquishment of a parent’s right of control, unless the student qualifies for the self-supporting exception.

In general, a resident has citizenship or permanent resident status in the United States and has established residence in California for at least one year immediately preceding the residency determination date (the day before the first day of courses). If you do not have citizenship or permanent resident status in the United States or have questions regarding your status, please contact the Admissions and Records Office.

If you are determined a non-resident, you will be charged non-resident fees, a capital outlay fee, and enrollment fees. Please refer to the Tuition and Fees section for specific information regarding fees.

How To Apply For Residency

Once a student has met the above requirements, a residency determination can be made. The Residency Determination application can be picked up at the Admissions and Records Office or be downloaded online at [http://www.cerrocoso.edu/student-services/admissions/residency.htm](http://www.cerrocoso.edu/student-services/admissions/residency.htm).

International Students

Prior to admission to the college, all students from non-English speaking countries must achieve a qualifying score on the Test of English as a Foreign Language (TOEFL). Students should apply to take this test by writing to the TOEFL Program, Educational Testing Service, Princeton, New Jersey, 08540. Information will be mailed to the student regarding the test, including a list of test centers in the United States and overseas.

In addition to the above, foreign students are required to submit all high school and college transcripts, three letters of reference or evidence of a local sponsoring agent (i.e., faculty member, coach, or local families participating in exchange programs, etc.), and documentary evidence of adequate financial support at least two months prior to the start of the semester, along with the $50.00 application fee. Upon receipt of required documents and the college’s acceptance, the college will submit the request to the Student Exchange and Visitor Information System (SEVIS) to generate the student’s I-20 for a F-1 visa application. The I-20 will then be sent to the student for submission to the student’s embassy/consulate to obtain the student’s F-1 visa. Once the F-1 visa is approved, the student then will follow the application and registration procedures listed for new students. Students admitted under an F-1 visa are required to pay non-resident tuition, the capital outlay fee, the enrollment fee, and all are required to purchase a health and accident insurance policy. International students must make their own accommodations and transportation arrangements prior to attending Cerro Coso Community College.

Contacts, processes, and forms for the above can be located at [http://www.cerrocoso.edu/admissions/international-students/](http://www.cerrocoso.edu/admissions/international-students/) or an International Student Packet can be sent to you upon request.

Admissions Form

An admissions form may be completed on the college web page at [http://www.cerrocoso.edu/studentservices/admissions/](http://www.cerrocoso.edu/studentservices/admissions/). It must be filed prior to registration. The application should include the prospective student’s social security number. The Social Security number will not appear on course roll sheets.
Use of Identification Numbers

All students are assigned an identification number when a completed admissions form is submitted to the Office of Admissions and Records. Students may use the assigned numbers or their Social Security numbers to access their academic records.

Changing Name, Address, Telephone, Email

Students may change their name by bringing photo identification to the Office of Admissions and Records. They may change their address, telephone number, or e-mail address on the web by logging onto InsideCC. Once logged in, they must select the “Student” tab, select “Banner Self Service”, and finally, select “Personal Information”.

Personal Identification Number

When prospective students complete their admission forms online, they will be asked to create a personal identification number (PIN). The number must meet the conditions below and should be a PIN that is confidential and nobody else will know. This will be the student’s universal PIN for logging into all Cerro Coso Community College Student Accounts.

- Must be 8-20 characters long.
- Must contain letters (case-sensitive) and numbers.
- Must not contain special characters e.g. @, space, ~, /, !
- Must not contain a character sequence e.g. 1234 or abcd.
- Must not contain a sequence of same characters e.g. 55555.

Student Rights and Responsibilities

The matriculation process at Cerro Coso Community College is intended to assist students in establishing appropriate educational goals and to provide support services to help them to achieve these goals. Students eligible for matriculation will be provided an orientation, evaluation of basic skills, counseling, and completion of an educational plan and follow-up services. All first time college students should complete orientation, assessment, and counseling prior to registering for courses and may NOT enroll during priority registration unless they have completed the matriculation process.

Cerro Coso Community College has as its basic role in the Matriculation Program the responsibility to develop an efficient process to encourage student participation in college services, programs and learning experiences that will aid in achievement success.

Students have the responsibility to inform the college of their educational and career goals. If you are undecided in either or both areas, our staff can assist you in clarifying your goals. Listed below are the basic components of your partnership with Cerro Coso Community College.

You agree to:

- State a broad educational intent upon enrollment, e.g., AA/AS degrees or transfer, etc.
- Declare a specific educational goal within a reasonable period of time following admission, with the deadline being during the term after which you complete 15 units of course work.
- Attend courses regularly and complete assigned work.
- Successfully complete your courses and maintain progress toward an educational goal.

Cerro Coso Community College agrees to:

- Process your application for admission.
- Provide orientation services addressing questions concerning college procedures, course scheduling, academic expectations, financial assistance and other relevant issues.
- Provide for assessment of your skills in conjunction with counseling/advisement.
• Provide assessment for math, reading, and English placement, including:
  a. Assistance in identification of occupational interests and educational objectives.
  b. Evaluation of study and learning skills.
  c. Referral to specialized support services.
  d. Advisement concerning course schedules.
• Provide evaluation of your educational progress, which is available through counseling and other support services.
• Provide a wide variety of course offerings, including pre-collegiate basic skills.
• Provide advisement of all nonexempt students with particular emphasis on students enrolled in pre-collegiate basic skills who have not declared a specific educational goal, as well as to students who have been placed on probation.

**Additional Rights of Students**

1. Right to appeal requirements of any prerequisite based on unavailability of the necessary course.
2. Right to acknowledge any prerequisite believed to be discriminatory through the appropriate office.
3. Right to challenge matriculation regulations/procedures. Students have the right to waive one or more of the following: assessment, orientation, and/or counseling/advisement.
4. Right to be provided alternative services for the matriculation process, if necessary, for ethnic and language minority students and students with disabilities.

If you have questions regarding your rights, see the Director of Student and Counseling Services in the Counseling Office.

**Matriculation Status**

Students are required to complete assessment, orientation, counseling, and a Student Education Plan (SEP) at Cerro Coso Community College in order to be a fully-matriculated student.

- Students with an Associate Degree or higher are considered fully matriculated.
- A student is exempt from assessment upon satisfactory completion of course work equivalent to college level English or college level math.
- A student may be exempt based on special circumstances. These will be reviewed on an individual basis upon appeal to the Vice President of Student Services.

All students are welcome to participate in orientation, assessment, counseling, and completion of a SEP. The procedures designed under the Matriculation Program are not intended to exclude any student from available college services.

**Course Requisites: Prerequisites, Co-requisites, and Advisories**

Complete course prerequisites, co-requisites, and advisories are listed in the course descriptions and are intended to ensure students a reasonable chance of success. For more information please contact the Counseling Office.

A **prerequisite** is a course or courses, skills, or a body of knowledge that students should possess prior to enrolling in a course or program. Prerequisites indicate the Cerro Coso Community College course(s) that must be taken prior to enrollment in a given course or program. Prerequisite requirements must be met before enrollment is permitted.

Prerequisite courses must be completed with a grade of “C” or better.

A **co-requisite** is a course or courses students are required to take simultaneously in order to enroll in another course. Co-requisites represent skills or a body of knowledge that students must acquire through concurrent and continued enrollment in another course or courses in order to receive a grade of “C” or better in the course requiring the co-requisite.

An **advisory** is a condition of enrollment which students are advised, but not required, to meet before or concurrently with enrollment in a course or educational program. An advisory suggests skills, or
a body of knowledge with which students would achieve a greater depth or breadth of knowledge or skill development, but without which students are still likely to receive a satisfactory grade.

A student may challenge any prerequisite or co-requisite on one or more of the following grounds:

1. The prerequisite or co-requisite has not been established according to the district’s process of establishing prerequisites and co-requisites;

2. The prerequisite or co-requisite violates Title V, Article 2.5, Section 55201 (Policies for Prerequisites);

3. The prerequisite or co-requisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner;

4. The student has the knowledge or ability to succeed in the course or program despite not meeting the stated prerequisite or co-requisite;

5. The student will be subject to undue delay in attaining the goal stated in the student’s educational plan because the prerequisite or co-requisite course has not been made reasonably available.

The determination of whether a student meets a prerequisite or co-requisite shall be made prior to the student’s enrollment in the course.

The student is responsible and bears the burden for showing that grounds exist for the challenge. The challenge must be made in writing, to the Director of Student and Counseling Services, prior to the student’s enrollment in the challenged course.

The Director of Student and Counseling Services, in collaboration with the appropriate faculty shall resolve challenges within five (5) school days of the receipt of the challenge.

If space is available in a course when a student files a challenge, the college shall reserve a seat for the student if the challenge is ultimately upheld. If no space is available in the course when a challenge is filed, and the challenge is upheld, the student shall be permitted to enroll if space is available, when the student registers for the subsequent term.

Prerequisite challenge forms are available in the Counseling Office for students seeking to challenge a course prerequisite and online at http://www.cerrocoso.edu/studentservices/admissions/requisitechallenge.htm.

Exemptions

Only students who have completed an Associate Degree or higher may be exempted from orientation, assessment and counseling; however, an exempt student wishing to enroll in a course with a test score prerequisite must participate in the college’s assessment of English, reading, and math skills.

A student may also decline to participate in the matriculation process, but relinquishes the right to participate in early registration and may not be able to enroll in courses that have prerequisite requirements. Information is available in the Counseling Office.

Students have the right to challenge or appeal any allegation of violation of matriculation regulations.

Assessment Policies for Students with Disabilities

The college will make reasonable accommodations and/or academic adjustments to ensure that students with disabilities have an equal opportunity to participate in the college’s courses, programs, and activities, including extracurricular activities. For more information on the academic accommodations, auxiliary aides and other resources available to students with verified disabilities, contact the Special Services Office at (760) 384-6250.

Participation by students with disabilities in Special Services is voluntary. Any student choosing not to participate in the program may elect an alternative path for support services through the Office of Student Learning. See Vice President of Student Services.

Student Educational Plans

Students are encouraged to meet with a counselor to develop a Student Educational Plan early in their enrollment.
After the first semester of attendance, students are required to complete a Student Educational Plan (SEP) to identify their educational goals and the courses, services, and programs that will be used to achieve them, in order to receive priority registration. These plans may be revised at any time.

Course Admission Policy

The policy of the college is that, unless specifically exempted by statute or regulation, every course, course section, or course reported for state aid, wherever offered and maintained by the college, shall be fully open to enrollment and participation by any person who has been admitted to the college and, when applicable, a relevant program, and who meets established prerequisites.

Early Registration Appointments

New students and continuing students who were registered on Monday of the third week of courses are assigned early registration appointments for the following semester in the following order:

Students who belong to specific groups or special programs and who have completed matriculation as follows:

- Day 1 through Day 2—Veterans, former Foster Youth, and EOPS
- Day 3—Honor Students
- Day 4 through Day 10—continuing students with less than 100 units attempted (excluding students on Academic Standing Probation 2)
- Day 11 through Day 14—new students not mentioned above
- Day 15—Open Registration (may be tiered over three days giving priority to students who have completed some but not all matriculation components)

Waitlist

The electronic waitlist allows students to be placed on a waitlist when registering if the course is full. It also moves waitlisted students into a course when seats become available. If seats become available and students are moved into the course, they are automatically registered for the course and sent an email notification to their college-assigned email address of their registration and informed that enrollment fees are due.

Drop for Non-payment

Prior to the last day of open registration, students will be dropped from their courses for non-payment of enrollment fees of $100.00 or more ten (10) days after the date they registered for the particular course(s). Beginning the first day of the term, students will not be dropped for non-payment of enrollment fees; however, they will have a hold placed on their transcripts, grades, diplomas, and registration privileges until their enrollment fees are paid. Any account balance older than 120 days may be subject to the collections process. Non-attendance or non-payment does not release students from their responsibility and may result in failing grades being awarded and fees owed.

Students will receive an email, sent to their college assigned email address, to notify them if they have been dropped for non-payment of fees.

Study Load

The usual academic load per semester for a full-time college student is a minimum of 12 units (6 units for Summer Session). Nineteen units constitute a
maximum study load (7 units for Summer Session). Only students with proven academic ability should enroll for a maximum study program. Permission to exceed the maximum study load must be obtained from the Vice President of Student Services or designee.

**Minimum Study Loads**

Study Loads apply for full semester length courses only. For short-term courses, please consult with a counselor. The college does not specify a minimum load except when the student desires to meet certain requirements such as:

1. Financial Aid Unit Requirements/Veterans or Dependents of Veterans:
   - Regular Semester
     - Full-time - 12 units
     - Three-fourths time - 9-11½ units
     - One-half time - 6-8½ units
     - Less than half time* - 5½ units or less
   - Summer Session
     - Full-time - Please see counselor
     - Three-fourths time - Please see counselor
     - One-half time - Please see counselor
     - Less than half time* - Please see counselor
   - *Less than one-half time and active duty is limited to tuition and fees only under Chapters 30, 33, and 35.

2. “F-1” Visa - 12 units per semester is the full-time load to maintain visa status.

3. Intercollegiate Athletics - 12 units or more per semester are required to meet eligibility for intercollegiate athletic participation.

4. Student government participation requires six (6) units.

5. Federal or College Work Study requires six (6) units for eligibility to participate.

**Repeating a Course**

Certain Cerro Coso Community College courses are identified in the course description sections of the catalog as repeatable, with the number of times they may be repeated indicated.

Other courses may be repeated once for credit if a grade lower than “C” or its equivalent has been earned. A student who has repeated a course under this condition may file a petition through the Counseling office and with the Office of Admissions and Records to have the previous grade and credit disregarded in the calculation of the GPA.

If a student earns any combination of “D,” “F,” “NP” or “W” on two attempts in a course, that student can only register for a third time with the approval of a counselor. If a course is not passed on the third attempt, it may not be retaken within the Kern Community College District.

In Compliance with Title 5 California Code of Regulations, Section 56029, certain course repeats may be authorized for students with disabilities following DSPS policies and procedures.

The college can provide no assurance that repeated courses will be treated in a similar manner by other educational institutions.

**Remedial Coursework Limitation**

Remedial coursework refers to pre-collegiate basic skills courses defined as courses in reading, writing, computation, learning skills, and English as a Second Language, which are designated as non-degree credit courses. No student shall receive more than thirty (30) semester units of credit for remedial coursework within the Kern Community College district, except for the following:

1. students currently enrolled in one or more courses of English as a Second Language,
2. students identified by the college as having a qualifying disability.

In Compliance with Title 5 California Code of Regulations, Section 56029, certain course repeats may be authorized for students with disabilities following DSPS policies and procedures.

Courses may also be repeated if the previous grade is at least in part a result of extenuating circumstances such as a verified case of illness, accident, or other circumstances beyond the control of the student and if a significant lapse of time (three years) has occurred since the course was taken. Approval to repeat under these circumstances must be obtained through the college Vice President of Student Services. In these circumstances, the previous grade will not be disregarded in the calculation of the GPA.

**Auditing a Course**

The audit option is designed to help students achieve educational goals related to the college’s core missions of transfer, workforce preparation,
and basic skills remediation. It is not designed as a work-around to repeatability limitations in physical education and performance arts. No audit requests will be approved for such activity courses. Students wishing to audit a graded course may do so only under the following conditions and only with the signature of the instructor and the permission of the Vice President of Academic Affairs.

1. Course attendance as an auditor shall be permitted only after students enrolling for credit toward a degree or certificate have had an opportunity to enroll.

2. No student auditing a course shall be permitted to change enrollment status in that course to receive credit.

3. Course attendance as an auditor shall be permitted only after payment of the appropriate audit fees. Auditors do not pay out-of-state tuition.

Petition for audit forms are available in the Counseling Centers and Admissions and Records Office at each campus.

**Academic Standing**

Students who are not in good academic standing will have a hold placed on their record until they meet with a counselor to make plans to improve their grades. These holds will prevent registration.

Students living in the local service will be required to attend a Probation/Disqualification Workshop on campus in order for the hold to be lifted.

**Removal from Probation**

A student on academic probation for a grade point deficiency shall be removed from probation when the student’s cumulative grade point average is 2.0 or higher.

A student on progress probation shall be removed from probation when the percentage of “W”, “I”, “NC” and “NP” units falls below 50 percent.

**Disqualification**

Any student who is placed on academic probation for three semesters of enrollment shall be disqualified for admission to courses the following semester unless, during the last semester of enrollment, the student earned a grade point average of 2.0 or higher, in which case the student shall be placed on continued probation.

Any student who is placed on progress probation for three semesters of enrollment shall be disqualified for admission to courses the following semester, unless during the last semester of enrollment, the percentage...
of units with entries of “W”, “I”, “NC” and “NP” was less than 50 percent, in which case the student shall be placed on continued probation.

Readmission

A student who is disqualified is ineligible to attend Cerro Coso Community College. Readmission may be considered after the disqualified student attends a Probation/Disqualification workshop and completes a Petition for Readmission with a Counselor and the Petition for Readmission is approved by the Vice President of Student Services or designee. A readmitted student will be restricted to specific courses or programs and a limitation will be placed on the number of units attempted. Contact the Counseling Office for specific Probation/Disqualification workshop dates.

Distance Education

Distance Education consists of courses offered from a wide variety of disciplines using three non-traditional delivery methods: Interactive TV, Online, and Hybrid. Dependent upon semester scheduling, Distance Education provides additional educational options to anyone seeking a college education:

- Students dealing with family and/or job commitments, time limitations or transportation difficulties, individuals willing to explore a less traditional presentation of course content, and students who choose to not come to campus for traditionally presented courses. Regardless of the mode of delivery, students receive the same course content described in the catalog.
- With Interactive TV courses, instructors may teach from an origination site at any of the campuses, using real-time two-way video/two-way audio technology (TVs). Students benefit from interactivity with students enrolled at one or more remote locations.
- Cerro Coso Community College offers a variety of online courses, allowing students to self-select courses free of any geographic and time boundaries. It is vital that students have a basic understanding of computer usage, dependable access to the Internet, and know how to send and receive email.
- Hybrid courses use the internet as the predominant delivery method combined with traditional face-to-face (F2F) classroom sessions. Students must be able to come to the Cerro Coso Community College campus for an orientation and sessions during the semester as well as have access to the Internet.
- Information is available by calling Counseling Student Services (760) 384-6219.

College Tuition, Fees, and Fee Refunds

Note: All fees and tuition charges are current as of May 2012 and subject to change pending California legislative action and/or KCCD Board action.

Enrollment Fee

California does not charge tuition for a community college education. However, all California Community College students are charged a state-mandated enrollment fee of $46 a unit with no cap on the fee; e.g., 10 units = $460.00, 12 units = $552.00, etc.

Non-Resident Tuition

All non-resident students will be charged out-of-state tuition at the rate of $190 per unit. This is above the required enrollment fee. Non-resident tuition will be assessed immediately up to and including a maximum of 15 units or a total of $2,850.00 per semester. In addition, a Capital Outlay fee of $30.00 per unit will be charged to all non-resident students, both foreign and domestic. While there is no tuition for California residents, out-of-state and international students who are not legal residents of California are required to pay a tuition fee at an annual or per semester unit rate as established each year by the Kern Community College District Board of Trustees.
Enrollment Fee Deadline

Enrollment fees are due at the time of registration. However, there is a ten (10) day grace period from the date of registration to pay accrued fees.

Drop for Non-Payment

Prior to the last day of open registration, students will be dropped for non-payment of enrollment fees of one hundred dollars ($100.00) or more ten (10) days after the date that they registered for the particular course(s). Students whose unpaid enrollment fees total less than one hundred dollars ($100.00) will not be dropped for non-payment, but will have holds placed on their transcripts, grades, and diplomas until their enrollment fees are paid. Beginning with the first day of the term, students will not be dropped for non-payment of enrollment fees; however, they will have holds placed on their transcripts, grades, diplomas, and registration privileges until their enrollment fees are paid.

Students will receive an email to their college assigned email address if they have been dropped for non-payment.

Any account balance older than 120 days may be subject to the collections process.

Student Representation Fee

A student representation fee of $1.00 will be assessed of all students each semester or session. This fee is used for any purpose related to representing the views of students with governmental bodies (local, state or federal). This fee can also be used to provide leadership training opportunities to students at Cerro Coso Community College.

Refund of Student Representation Fee

Students may, for religious, political, financial, or moral reasons, request a waiver of the Student Representation Fee by completing the Student Representation Waiver Application, or by obtaining and submitting the application at the Business Office at each campus.

Textbooks

Students may need to buy textbooks, laboratory manuals, notebooks, writing materials, and miscellaneous supplies as determined by their instructors.

It is estimated that the cost of books and supplies will be $550 to $650 per semester for a 15-unit schedule. Books may be purchased or rented at Barnes & Noble college bookstore (760) 384-6352 which is open year-round except during college holidays.

Instructional/ Special Materials Fees

Students obtain required supplemental course materials from the instructor or purchase supplies from any source of their choosing (in lieu of paying the designated material fee).

Refunds

Tuition and course enrollment fees are refunded if a student drops a course:

1. Within 2 weeks after the starting date (NOT THE ADD DATE) of the semester for full term course; or
2. Prior to a date calculated to be 10% from the starting date of a course less than semester length. For example, if a course is 10 days or less in length, a student must withdraw before the second meeting to be credited a refund.

It is the student’s responsibility to withdraw from a course in a timely manner. A student entitled to receive an enrollment fee refund must apply for the refund before the end of the second consecutive semester of nonattendance (summer session is not considered a semester), and must use the appropriate campus refund form. If a student does not apply for a fee refund within the time frame noted, the available funds will revert to the Kern Community College District. NO REFUNDS CAN BE MADE AFTER THESE DEADLINES. All applications for refunds must be submitted to the Business Office before a refund can be processed.
Cerro Coso Community College Coyote Card

All students are invited to purchase a nonrefundable Associated Student Body card at a cost of $8.00 per semester. If lost, a replacement card can be purchased for $3.00. This card signifies membership in the Associated Students of Cerro Coso Community College and entitles the student to membership in the Community Discount Program, ASCC events, discount admission to museums, galleries, theaters, ski packages, and computer and software sales. Funds collected support the student association, student clubs, co-curricular events, and scholarships. This card can be purchased on campus at the Admissions and Records Office, the Business Office, or by selecting it online and adding it into your total balance. To receive the card, go to the Office of Student Activities or the Administrative Office at your campus.

Online Student ASCC Cards

If you are an online student and would like an ASCC card to show for evidence of academic eligibility, or if you are in our service area and would like to visit participating businesses, please do the following:

- Email our Student Activities office and provide the following information:
  - Photo in jpeg format (head shot please)
  - Name
  - Student ID# or SSN
  - Term for which enrolled
  - Proof of payment for ASCC card

Send the information above to:

Anna Sue Eldridge
aeldridg@cerrccoso.edu
(760) 384-6353

Or mail to:

Office of Student Activities
3000 College Heights Blvd.
Ridgecrest, CA 93555

If you have any questions, please call our Student Activities office at (760) 384-6353.

Attendance Policies

Regular course attendance is expected of all students enrolled in the college. It is especially important that students attend the first session of each course to avoid being dropped. This policy is enforced due to the importance of information provided in the first session.

The attendance policy for each course is established by the instructor and communicated for each course, preferably in writing. Attendance policies will be reasonably related to course objectives, the requirements of institutional reporting, and legitimate absences. Instructors are responsible for maintaining accurate attendance and scholarship records.

While it is the responsibility of instructors to communicate attendance policies and to apply them equally to all students, it is the responsibility of students to know the policy in each of their courses and to be aware of their current attendance status. Students who have been absent from a course should notify the instructor of the reason for the absence. Absence in no way relieves students of responsibility for work missed.

Excessive absence may result in the student being dropped from the course. Instructors may drop a student from a course when absences number the equivalent of two weeks of courses recorded from the first day of instruction.

Faculty members may give consideration to excusing students from courses to participate in scheduled college activities, e.g. athletics, music, forensics, field trips, etc. The student must make arrangements in advance to make up the work to be missed.

Students are responsible for officially withdrawing from any course or courses in which they no longer wish to be enrolled. Non-attendance does not release the student from this responsibility.

First Day Drop

Onsite students MUST show up on the first day of the course if they are registered for the course or if they are on the waitlist. Students who DO NOT attend the first course meeting will be DROPPED from the course or the waitlist. Students who attend the first session may be moved from the waitlist to the course based on the enrollments available and
the students’ position on the waitlist. Students dropped for non-attendance will not be able to re-enroll.

Online students who are registered for an online course may log in to their course starting the Friday before the semester begins and MUST login by 8:00 pm on the first day of an online course or they will be DROPPED from the course.

It is the student’s responsibility to attend the first day or to notify the instructor in advance.

Late Add Policy

All courses are closed for enrollment after the first course meeting. Late adds are granted for extenuating circumstance only. Examples of verifiable extenuating circumstances may be: accidents, illness, death of an immediate family member, or other circumstances beyond the control of the student. A late add petition must be signed by the student, instructor, and the Vice President of Academic Affairs. Documentation of extenuating circumstance will be required.

Withdrawing from Courses

Students are responsible for officially withdrawing from any course or courses in which they no longer wish to be enrolled. After registration has been completed, and within the withdrawal date guidelines, students may drop from a course or courses through the web registration system, InsideCC. Non-attendance or non-payment does not release the student from this responsibility and may result in a failing grade being awarded and fees owed.

A student may drop a course and receive a “W” up to and including the last day of the 10th week of instruction or the first 60% of the term, whichever is less.

Courses dropped prior to the third week or first 20% of the term will not be included as part of the student’s permanent record. For courses dropped from the third week to the withdrawal deadline date, a “W” will be recorded. After the withdrawal deadline, a grade symbol other than a “W” will be recorded. It is not appropriate to use an “I” (incomplete) as a withdrawal grade.

Although a “W” will not be used to calculate grade point average, excessive “W’s” shall be used as factors in progress probation and disqualification.

- It is the student’s responsibility to drop courses prior to the 10% date of enrolled courses and to apply for a refund.
- It is the student’s responsibility to drop courses prior to the 20% date of enrolled courses in order to avoid notation of the courses on the student’s permanent record.
- It is the student’s responsibility to withdraw from courses prior to the 60% date to receive a “W” in these courses and to avoid substandard grades on the student’s permanent record.

While it is the final responsibility of students to drop a course that they are no longer attending, instructors may, at their discretion, drop a student without consultation with the student when unexcused absences number the equivalent of two weeks or exceed 10% of the total hours of the course. Under these circumstances, this instructor-initiated drop can occur up to the 10th week of the semester or the 60% date of the course. No student may be dropped from any course after the 10th week of a course; after the 10th week the student will be assigned the appropriate letter grade.

Drop dates for short-term and summer courses vary. Check with the instructor for specific dates.

Official withdrawal from a course is accomplished through logging on to the web registration system, InsideCC, and dropping the course. Simply ceasing to attend a course does not constitute withdrawal.

Withdrawal after Deadline

A student may contact the Office of Admissions and Records regarding the procedure to drop or withdraw after the final withdrawal date deadline if there are verifiable extenuating circumstances. Examples of verifiable extenuating circumstances may be: accidents, illness, death of an immediate family member, or other circumstances beyond the control of the student. This must be done by the last day of courses and prior to the beginning of the final examination period for the term in which the withdrawal will apply. A withdrawal
petition must be signed by the student, instructor, and the Vice President of Academic Affairs. Documentation of extenuating circumstance will be required. In the case of students who are members of an active or reserve military service, and who received orders compelling a withdrawal from courses, the college shall permit withdrawal at any time during the term with no adverse impact on a student’s academic record or enrollment status.

Students in any other situations will be required to keep their grade, meet the contract of their incomplete grades if appropriate, and pay their fees.

Withdrawning from the College

Students who find it necessary to withdraw from the college are required to return all checked-out supplies, equipment, and library books, and pay all fines and debts owed the college.

Any account balance older than 120 days may be subject to the collections process.

College Transcripts

Each student who has an academic record on file at Cerro Coso Community College is entitled to two official transcripts of record without charge. After two free transcripts have been provided for the student, all additional copies are $4.00 each. Rush transcripts are $8.00.

Upon written application an official transcript of all work completed at Cerro Coso Community College will be prepared and forwarded in accordance with the wishes of the student. Students have the right to notify the college that their date of birth (DOB) not be included in their transcripts. However, DOB is a very useful identifier, and students are encouraged to have it displayed on transcripts. Under no circumstances can Cerro Coso Community College release or mail a transcript originally issued by another educational institution. Direct requests for transcripts must be submitted to the Office of Admissions and Records. Electronic transcript requests are submitted online or requests may be submitted on the appropriate form at Admissions and Records.

Verification of Enrollment or Degrees

The Office of Admissions and Records will complete a verification of enrollment upon written request by the student.
Student Schedule of Courses

Individual student course schedules are available on the web registration system, InsideCC.

Assessment Center

The Cerro Coso Community College Assessment Center offers the Accuplacer Placement Exam and the Prometric Pearson VUE. Students may call the Counseling Office for schedule information.

California Work Opportunities and Responsibility to Kids (CalWORKs)

The CalWORKs Program is designed to provide participants with quality education programs and employment training experiences that lead to economic self-sufficiency. This is accomplished by offering work-study positions, child care referrals, and career counseling, in coordination with local Social Service agencies. Students who are enrolled at Cerro Coso Community College, receive TANF benefits, are at least 18 years old, and in good academic standing are eligible to participate in the program.

Career and Transfer Center

The Career and Transfer Center provides information on career planning, job development skills, and transfer options. The center is available to all prospective, current, and alumni Cerro Coso Community College students.

Career Services include:
- Self-assessment surveys to determine career interests
- Resume writing
- Job interview skills
- Mock interviews
- Career planning
- Job search
- Networking with part-time, full-time, temporary, permanent, or summer employment opportunities (on and off campus)

Transfer Services include:
- CSU and UC application assistance
- Transfer research materials
- Transfer Admissions Guarantee Program (TAG)/Transfer Alliance Program (TAP) with UCLA
- Workshops
- Virtual campus tours
- College and university representative visits
- Counselor assistance

Child Development Center

Cerro Coso Community College offers Child Development Centers/Lab Schools in Ridgecrest and in California City. The Child Development Centers/Lab Schools provide care and developmentally appropriate experiences for infants, toddlers, and preschool-age children in full-day, full-year programs. We also offer a part-day, part-year program for 3-5 year old children. Child Development programs are open to all families. Children of working parents or college students may qualify for state subsidized child care according to family income and size.

The Child Development Centers/Lab Schools also provide high quality programs where Cerro Coso students majoring in Child Development can work directly with infants, toddlers, and/or preschool-age children to apply the theory learned in Child Development courses to real life experience working with children.

Students seeking to enroll in Child Development Laboratory courses that require the student to be in contact with children must furnish such consents and information (including, but not limited to, all names used by the student, social security numbers, birth date and addresses) as may be required to carry out background checks, and provide access to the results by the District (and the Center, as necessary).

Counseling and Advising

The college counseling staff provides assistance to each student in planning an academic program of study for a certificate, an associate
To talk with a counselor or advisor, please stop by the Counseling Center or call (760) 384-6219. Office hours are Monday to Thursday, 8:00 a.m. to 6:00 p.m., and Friday 8 a.m. to noon.

**Disabled Student Programs and Services (DSPS)**

The Disabled Student Program and Services provides assistance for students with various types of disabilities (visual and hearing impairments, speech and communication problems, physical and brain injuries, learning disabilities, psychological problems, etc.) as well as for persons referred for training by rehabilitation agencies.

**Extended Opportunity Programs and Services (EOPS)**

The EOPS Program is specially funded by the state for the purpose of assisting full-time students who have educational, economic, social, cultural, or language problems which may hinder their academic progress in school.

EOPS is designed to accomplish the goals of helping to retain full-time students for further academic study, training students for employment, and providing supportive services so that each student receives the maximum opportunity to succeed. Supportive services include tutoring, peer mentoring, advising, career and professional guidance, grants, and part-time employment.

**Cooperative Agencies Resources for Education (CARE)**

Included as a part of EOPS, CARE is a program designed to enhance educational opportunities for single parent, head of household, TANF recipients who seek to enhance their employability, minimize their welfare dependence, and establish economic self-sufficiency through enrollment in an educational program.

For further information on any aspect of the Special Services Program, contact the Counseling Center at the IWV campus or the college office at other sites.

**Financial Assistance**

The primary purpose of the financial aid program at Cerro Coso Community College is to provide assistance to students who, without such aid, would be unable to attend college. The program is administered in accordance with a nationwide policy and philosophy of financial aid for education. State and federal grants and student jobs are available to students. Through the generous contributions of various individuals and groups in the community, other short term loans and grants are also available. These funds are awarded in the form of scholarships or short term loans on the basis of need and academic performance.
All students who wish to participate in federal or state financial assistance programs must adhere to the following procedures:

**Step 1 - The Financial Aid Application**
Fill out the Free Application for Federal Student Aid (FAFSA) or Renewal Application at FAFSA on the Web each academic year. You will receive a Student Aid Report from the U.S. Department of Education and so will each school that you listed on your FAFSA. The Cerro Coso Community College Title IV school code (010111) must be listed on your FAFSA. Apply online at [http://www.fafsa.ed.gov/](http://www.fafsa.ed.gov/).

**Step 2 - The Missing Information Letter**
Cerro Coso Community College Financial Aid and Scholarships Office will receive your information electronically from the Federal Processing Center and you will receive a missing document/verification request letter. All students are required to complete a Financial Aid Terms of Agreement and Satisfactory Academic Progress Requirements and return only the requested forms and/or documents as soon as possible to the Cerro Coso Community College Financial Aid and Scholarship Office.

**Step 3 - The Verification Process**
The Federal Processing Center randomly selects financial aid applications for a process called verification. Please understand that during the verification process, you may be asked to provide additional documents or clarification of your original FAFSA information. If the result is a change to your Expected Family Contribution (EFC), a correction will be submitted to the Department of Education for additional processing.

**Step 4 - Satisfactory Progress**
Students that apply for financial aid will be reviewed to determine if they are maintaining Satisfactory Academic Progress (SAP). To meet SAP, students must achieve a cumulative Grade Point Average (GPA) of 2.0 or better and complete 67% of all units attempted prior to attempting a total of 90 cumulative units. In addition, students must be following their Student Educational Plan (SEP) approved by a Cerro Coso Community College Counselor.

**Step 5 - The Award Notification Letter**
An award letter informing students of their financial aid benefit amount, based on full-time enrollment, will be mailed to them. Students who are not eligible will receive an explanation of why they are not eligible.

**Step 6 - Financial Aid Disbursements**
Disbursements occur twice during a semester. Students must notify their counselor or advisor immediately of any changes in address or enrollment status during each term of attendance.

All financial aid students will need to determine which one of these three ways they wish to have Kern Schools Federal Credit Union (KSFCU) forward their financial aid funds:

1. Direct Deposit in a KSFCU account (deposited in 24 hours from the date of your scheduled disbursement)
2. Electronically forwarded to your banking account (7-10 business days depending on your bank)
3. Paper check mailed to you (up to 21 days)

**Financial Aid Programs**
The Financial Aid Office has multiple programs available to students. Below is a brief description of the various sources of financial aid available:

**Part-time Student Employment**—applicants must complete and submit the FAFSA and an Application for Student Employment to the Financial Aid Office at the IWV campus.

**Federal Work Study (FWS)**—is a federally-funded program that provides part-time employment for students from low-income families. To be eligible, the student must complete the FAFSA and submit a Cerro Coso Community College Work-study application packet.

**Cerro Coso Community College Work Study**—is an institutionally funded program that provides part-time employment for students. To be eligible, the student must complete the FAFSA and submit a Cerro Coso Community College Work-study application packet.

Note: All forms of student employment are subject to the following eligibility requirements:
- Enrollment in a minimum of 6 units
- Maintenance of a minimum 2.0 GPA
- Completion of less than 90 units

**The Federal Pell Grant**—is a federal program designed to provide financial assistance to U.S. citizens or permanent residents currently enrolled in a post-secondary educational institution.

**Supplemental Educational Opportunity Grant (SEOG)**—is available to a limited number of
students who require grants in order to go to college. Funds are awarded on a “first-come, first-served” basis.

**CARE Grants**—are grants funded through the State of California and are available to students meeting a specific academic and economic need.

**Board of Governors Waiver (BOGW)**—is a state-funded program designed to assist students who are California residents in meeting the cost of the enrollment fee charged at California community colleges.

**Bureau of Indian Affairs Grant (BIA)**—provides financial assistance to Native American students who enroll in full-time college programs. In order to qualify, a student must be at least one-fourth American Indian, Eskimo, or Aleut. Those who believe that they qualify should contact the appropriate BIA area or agency office maintaining tribal records.

**CAL Grants**—the State of California sponsors the following awards under the Cal Grant Program:

- **Cal Grant A** provides tuition for students from low- and middle-income families with financial need and academic ability. Cal Grant A recipients attending a California community college will have their awards reserved until they transfer to a 4-year college or university.

- **Cal Grant B** is intended to aid high potential students from low-income families. The student must be enrolled in a course of study which lasts at least nine months and be taking at least six units of course work.

- **Cal Grant C** is to help students from low- and middle-income families to attend vocational programs and schools. Students may apply if enrolled in vocational programs or designated manpower shortage occupations if such programs last between four months and two years.

A student can receive only one Cal Grant award.

**Short-Term Emergency Loans**—Small short-term, no-interest loans are available to eligible students for emergency purposes throughout the year. This loan fund is maintained through donations from the Associated Students of Cerro Coso Community College and various community clubs and organizations.

**Scholarships**—Community individuals and organizations have contributed monies to develop various college scholarships. Please visit the Cerro Coso Community College Financial Aid website link for more information on applying for scholarships.

### Satisfactory Academic Progress Policy (SAP) For Financial Aid Programs

Federal regulations require that all students who receive federal financial aid make Satisfactory Academic Progress (also referred to as SAP throughout this policy and the Office of Financial Aid website) toward achieving a certificate or a degree. For financial aid purposes, progress is measured by the student’s cumulative grade point average, percentage of units earned in relation to those attempted, and the length of the academic program.

SAP will be checked for all students after every semester, regardless of whether financial aid was received. Progress is evaluated based on all courses taken at Porterville College, Bakersfield College, and Cerro Coso College plus transfer units from prior colleges/universities.

In order to assure that students make progress toward earning a certificate or degree both in terms of number of units completed and cumulative GPA, our school employs the following financial aid satisfactory progress policy:

1. **Academic Requirements**

   Students meeting all of the following requirements are considered to be acceptable for SAP and can be considered for financial aid or reinstatement of financial aid:

   - **A. Qualitative Measure**—Maintain a minimum cumulative Grade Point Average (GPA) of 2.00. A, B, C, D, and F grades are used to calculate a student’s GPA.

   - **B. Quantitative Measure** (Pace of Progression)—Receive credit for at least 67% of the total units attempted. Withdrawals (W), Incompletes (I or IP), No Credit (N, NC or NP, Report Delay (RD) and Failing (F) grades are considered units attempted. Transferable units accepted by the institution from prior colleges or universities will be included when determining a student’s pace of progression.

   - **C. Maximum Timeframe**—Have attempted less than 150% of the maximum cumulative units required for completion of their program, for example: Most certificate programs require 30
units to graduate; the maximum timeframe to complete the program would be 45 units. Most degree or transfer program requires 60 units or more to graduate; the maximum timeframe to complete the program would be 90 attempted units.

i. Up to 30 units of remedial coursework may be excluded from the student’s cumulative units attempted.

ii. Repeated coursework and courses disregarded under Academic Renewal/Grade Forgiveness will be excluded from units attempted. Students may only receive federal financial aid funding for one repeat of a previously taken course.

iii. All transferred units accepted by the institution from prior colleges or universities will be included when determining a student’s maximum timeframe.

iv. If, at any point in time, it is determined that the student cannot complete their course of study within the maximum timeframe, the student will be immediately disqualified from future financial aid for the remainder of his or her program, even if he or she is meeting the current SAP standards outlined above.

2. Financial Aid Warning
   If a student does not meet all cumulative academic requirements outlined in Section I at the end of a graded semester, the student will be placed on WARNING status. Students who are placed on WARNING status may continue to receive financial aid for one semester, after which the student must meet the requirements outlined in Section I. Students who complete a semester on WARNING must have their academic progress reviewed before their financial aid eligibility for the following semester is determined. Due to the short time period between semesters, there will be at least a three week delay in the notification of eligibility. If eligible, any disbursement of student aid will also be delayed.

3. Financial Aid Suspension
   If a student does not meet all cumulative academic requirements outlined in Section I at the end of the FINANCIAL AID WARNING semester, or it is determined that the student will not be able to graduate within 150% maximum timeframe limit, the student will be placed on financial aid SUSPENSION. Generally, a student who is suspended from financial aid may reestablish financial aid eligibility by meeting all cumulative SAP criteria outlined in Section I.

   Students placed on SUSPENSION status are not eligible to receive financial aid except for a BOG fee waiver, if eligible. Students who complete a semester on SUSPENSION must have their academic progress reviewed before their financial aid eligibility is determined for the following semester. Due to the short time period between semesters, there will be at least a three week delay in the notification of eligibility. If eligible, any disbursements of student aid will also be delayed.

   Under certain conditions, students placed on SUSPENSION may file an appeal for consideration of reinstatement of financial aid eligibility. The following are examples of reasons a student may file an appeal:
   • Unable to complete their course of study within the maximum timeframe because of a change of academic major
   • Documented serious injury, illness, or medical condition requiring doctor’s care
   • Death of an immediate family member (copy of death certificate required)
   • Documented extenuating circumstances that were beyond the student’s control

   The following are not considered extenuating circumstances beyond a student’s control:
   • Personal problems not requiring professional intervention
   • Poor time management
   • Transportation problems
   • Unaware of academic progress policies or other college requirements
   • Not following assessment test recommendations
   • Not following an Academic Counselor’s recommendations
   • Child care problems

   To file an appeal, the student must submit a Petition for Reinstatement of Financial Aid.
with a statement indicating the circumstance(s) that prevented
the student from making SAP and what has changed to
allow the student to make SAP during or by the next evaluation
period, and an approved Educational Plan. Supporting
documentation must be submitted for any semesters
where there was a lack of progress.

The Financial Aid Office reserves
the right to limit the number of
academic appeals a student may
file to one appeal per semester.
Once denied, the student
may not be allowed to submit
another appeal until the next
semester. All decisions made by
the Financial Aid Committee or
Director are final and there is no
higher appeal process.

Satisfactory Academic
Progress Appeal Process

Financial aid eligibility may
be reinstated when a student raises
their cumulative GPA to a
2.00 and achieve a cumulative
completion rate of 67% of all
units attempted. Reinstatement
of financial aid eligibility may
also occur upon approval of a
Satisfactory Academic Progress
Appeal.

Financial Aid Probation status is
only granted upon the approval of a Financial Aid Satisfactory
Academic Progress (SAP) Appeal. Students may receive financial
aid for one term. Students on PROBATION must meet
the following requirements each semester to maintain
financial aid eligibility: meet SAP standards by the end of
that semester to remain eligible for subsequent financial aid, be
enrolled in and attending an eligible program for the purpose
of completing a certificate program, an AA/AS degree,
or transfer requirements, and
follow an approved Educational Plan.

Appeals may result in any one of
the following actions:
• Reinstatement on Probation
• Denial of Reinstatement

Maximum Time Frame Extension
Appeal Process

Students have the right to
request an extension of their
financial aid eligibility if they
exceed or expect to exceed the
maximum units allowed for their
degree or certificate. Students
will need to complete an appeal
form and include an Educational Plan. Submission of an appeal
does not guarantee approval.

If an appeal is approved,
coursework will be limited
to courses required for the
completion of the certificate or
degree. In addition, a student
must maintain a minimum
cumulative GPA of 2.00 and
successfully complete all courses
listed on their Educational Plan.
Failure to meet the requirements
of the approved maximum
time frame appeal will result
in suspension of financial aid
eligibility.

If a Maximum Time Frame
Appeal is denied, the decision
made by the Financial Aid
Committee or Director is final
and there is no higher appeal
process.

Lifetime Eligibility
for Pell Grant

Please note effective July 1,
2012, new federal regulations
limit the receipt of a Pell Grant
to a lifetime limit of up to 6 full-
time years (600%). This includes
community colleges, vocational
schools and four year public
and private universities. This
limit will be tracked by the U.S.
Department of Education.

Regardless of the Pell Grant
amount, if you receive the full
year amount then you have
received 100%. For example,
your Pell Grant for the year is
$4,000 and you receive $2,000
in Fall, $1,000 in Spring and the
remaining $1,000 in Summer.
You have received the entire
$4000 or 100% for the year.

The 600% total eligibility applies
at all schools and colleges.
However, once you have earned
a Bachelor’s Degree, you are no
longer eligible for a Pell Grant
even if you haven’t received
the entire 600% eligibility. In
addition, you must also meet
and maintain Satisfactory
Academic Progress Policy
standards to remain eligible
each year.

Career Planning/ Placement
Services

Career Planning/Placement
Services assist individuals
in making career decisions. These services, located in the
Counseling Center, are
open to all students and
visitors from the community
and include computerized
career information and search
programs, a career information library, occupational interest inventories, individual counseling, and courses in career planning. The Cerro Coso Community College Job Development Specialist is available for information relating to job seeking skills, interview and resume writing techniques, and current employment opportunities. Appointments are available with the Job Development Specialist in the Career and Transfer Center at the IWV campus or by calling (760) 384-6276 or by going to http://www.cerrocoso.edu/studentservices/ and selecting “Career Center”.

Learning Assistance Center (LAC)

The LAC, located on the second floor of the Learning Resource Center at the Indian Wells Valley campus, provides a variety of instructional support services for students enrolled in academic and vocational courses: tutorial assistance for all courses offered through the college, make-up testing (if permitted by the course instructor) for students unable to take exams during course time, and computerized instruction for students needing assistance with English and math.

Free self-paced, individualized GED preparation is available to students who enroll in courses at Cerro Coso Community College. Cerro Coso Community College no longer offers GED testing or GED Prep courses.

A program of computer-assisted language instruction is available to English-as-a-Second-Language (ENSL) students. Students can practice reading, writing, speaking, and listening skills.

Other LAC services include test administration services for CLEP examinations and proctoring of exams from other institutions.

Learning Resource Center (LRC)

The LRC assists students and faculty with print, non-print, and online resources in support of instructional and educational goals. Unless otherwise posted, the LRC is open Monday through Friday, and consists of the Library, LAC, High Tech/Alternative Media Center, instructional classrooms, and a virtual branch of the Kern County Law Library.

Print, non-print, and e-book collections can be searched in Horizon, the LRC’s online catalog. Online, full-text periodical, newspaper, and reference resources are available at all Cerro Coso Community College sites and by remote access via computers in Computer Pods.

Students and staff use their current Coyote Card for library circulation privileges. Community members may also have circulation privileges after completing a form and showing current California picture identification.

Library

The LRC Library provides access to information in a variety of ways and formats. In addition to over 53,000 books in the collection, the library subscribes to 5 periodicals, 9 online full-text periodical and 2 newspaper indexes. The library is fully automated, with access to the catalog and periodical indexes not only on campus, but off-campus as well as via the Internet at http://www.cerrocoso.edu/lrc/. Reference librarians are available during library hours to assist library users with research needs.

Services available to all library users include:

- Library Research workshops
- Research Pod Computers (9)
- Study rooms for group work (4) (rooms are available on a first-come basis)
- Photocopying and computer printing (fee for use)
- Internet and computer access via computers in Computer Pods
- Telephone reference service (760) 384-6131
- Ask a Librarian 24/7 chat at http://www.cerrocoso.edu/lrc/

Student Housing

The South Gateway Student Apartments are located adjacent to the Eastern Sierra College Center’s Mammoth Lakes campus and are available for single or double occupancy. These apartments, with spectacular views, are managed by the Mammoth Lakes Foundation.
whose mission is to support higher education and cultural enrichment in the Eastern Sierra. For more information on cost and the application process log on to http://www.mammothstudentapartments.org/ or call the Mammoth Lakes Foundation at (760) 934-3781.

No student housing facilities are available at any of the other Cerro Coso Community College campuses. A listing of possible living accommodations for students in the nearby communities may be obtained in the Counseling Office. The college, however, assumes no legal responsibility for providing or supervising off-campus housing facilities for students.

Outreach Programs and Services

The Counseling Office conducts and coordinates campus tours for prospective students, high school visitations, and contacts with community groups for recruiting purposes, and represents the college at various events and activities.

Student Activities Program

The purpose of the Student Activities Program is to provide students with an environment in which to enhance identification, affiliation, friendship, and responsibility; to assist with the delivery of services which will facilitate the completion of educational goals; and to provide students with an organization through which they may have self-governance and participate in co-curricular and extracurricular activities.

The Associated Students of Cerro Coso (ASCC) is the official student organization, with membership open to all students. The ASCC, through its governing body, the Student Senate, promotes the Student Activities Program at the college. A system of self-government has been established by which the students, through democratic action, formulate and execute resolutions and programs and prepare the student body’s annual budget. Students have the opportunity to serve as a club representative or student Senator, to hold office, and to join other college student organizations.

Cerro Coso Community College students can purchase the Coyote Card each semester at the time of registration. Those funds, in turn, support the Student Activities Program which benefits the college and contributes to the welfare of all students. Members are also entitled to reduced or free admission to various on-campus and off-campus events sponsored by the ASCC and discounts at various local businesses.

Student Clubs and Organizations

Student clubs and organizations, sponsored by appropriate faculty or other staff members, may be formed when there is a worthwhile purpose and sufficient student interest is demonstrated. Information concerning organizational procedures is available in the Student Activities Office and from individual Student Senate executive council members.

Student Complaint

The Student Complaint Procedures are established so that students can resolve difficulties/problems they encounter in college-related activities. Student complaints are taken seriously; therefore, the complaint must be of a compelling, substantive, and verifiable nature. Repeated filings of the same complaint, filings of a frivolous nature, or capricious complaints against school personnel will be considered abuse of the student conduct and/or complaint process. Such repeated filings will be referred to the College President for a decision.

These procedures apply to student complaints such as:

- Course content
- Access to classes
- Verbal or physical abuse by faculty, staff, or students
- Faculty member refusal to confer with student(s)
- Harassment

These procedures do not apply to student complaints which involve:

- Unlawful Discrimination (See Policy 11D4)
- Sexual Harassment (See Policy 11D2)
- Assignment of grades (See Policy 4C4 for final grade changes)
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For the complete Student Complaint Policy see Board Policy 4F10 and Procedure 4F10 (a and b).

California Community College Chancellor’s Office Note

Most complaints, grievances, or disciplinary matters should be resolved at the campus level. This is the quickest and most successful way of resolving issues involving a California Community College (CCC).

You are encouraged to work through the campus complaint process first before escalating issues to any of the following resources. Issues that are not resolved at the campus level may be presented:

- To the Accrediting Commission for Community and Junior Colleges (ACCJC) at http://www.accjc.org/complaint-process if your complaint is associated with academic program quality and accrediting standards. ACCJC is the agency that accredits the academic programs of the California Community Colleges.

- To the CCC Chancellor’s Office by completing the web form, available at http://www.californiacommunitycolleges.cccco.edu/ComplaintsForm.aspx#complaintForm, if your complaint does not concern CCC’s compliance with academic program quality and accrediting standards.

Student Conduct

The Board of Trustees of the Kern Community College District, in support of public education and the exercise of general supervision of the campuses of the district, believes that student conduct must reflect the standards of good behavior expected by society. Since public education is furnished by the people of the district, it becomes a privilege for students to have this opportunity to further their education.

Students shall respect constituted authority. This shall include conformance to state laws, board regulations, college regulations, and applicable provisions of civil law.

Students are expected to observe high personal standards of decency, morality, honesty, and social relationships. Student conduct should reflect consideration for the rights of others, and students are expected to cooperate with all members of the Cerro Coso Community College community. (KCCD Board Policy 4F8B)

Failure to respect the standards as set forth by Cerro Coso Community College may be cause for disciplinary action.

Copies of the Cerro Coso Community College Student Conduct Policy may be found in the Cerro Coso Community College Student Handbook and on the college website.

Veterans’ Services

Cerro Coso Community College maintains a full-time program of Veterans’ Services to assist veteran students and their dependents.

Eligibility for educational benefits is determined through an application process by the Veterans Administration (VA).

Benefits payable through the VA are determined by your term of service in the military. The Montgomery GI Bill (MGB), [Chapter 30] and the Post 9/11 GI Bill [Post 9/11] are currently offered for returning veterans. Vocational Rehabilitation [Chapter 31 Voc. Rehab] is available to disabled veterans and requires a referral from a qualified vocational rehabilitation counselor. Dependents of veterans who are deceased or are 100% disabled, as determined by the VA, may be eligible for educational benefits under the Dependents Education Act [DEA Chapter 35]; the steps listed below need to be followed. Students in reserve status [Chapter 1606/1607] may qualify for reimbursement for a portion of their educational costs.

All veteran students and student dependents of veterans who wish to receive educational benefits through the Veteran’s Administration must complete these steps:

1. Fill out the application for federal VA benefits at http://www.gibill.va.gov/. The VA may require first-time applicants to send a copy of their DD214 form to Muskogee, OK (VA Regional Office, PO Box 8888, Muskogee, OK 74402-8888) before their application can be processed.

2. Contact a college counselor or educational advisor to
establish an appropriate educational objective and initiate a Student Educational Plan (SEP). The VA requires a Program Approval and the SEP update to be completed with an educational advisor or counselor for every semester that the student receives benefits. Contact the Counseling Office at (760) 3894-6219.

3. Order official transcripts from any previously attended regionally accredited institution, including military transcripts. Admission with previously earned credits will be granted upon official transcripts showing satisfactory scholarship and honorable dismissal from the institution previously attended. The counseling staff evaluates and applies appropriate credit to your Student Educational Plan. The inclusion of accepted, accredited units from submitted official transcripts, including military transcripts is required on the SEP update by the second semester of attendance. Please have official transcripts mailed to:

Cerro Coso Community College
C/o Office of Admissions and Records
3000 College Heights Blvd.
Ridgecrest, CA 93555

NOTE: These steps are in addition to the steps necessary to become a matriculated student at Cerro Coso Community College. See Matriculation.

ATTENTION ALL MALE STUDENTS: Federal regulations require that all males between the ages of 18 and 26 be registered with Selective Service in order to receive federal financial aid funding.
Academic Credit

Coursework is measured in terms of semester units. Generally, a “unit” equals 18 hours of lecture or 54 hours of lab work or activity per semester in most courses. Lecture courses require outside-of-class work that is equal to 2 hours per each hour of lecture. For example, a 3-unit lecture course meets 3 hours per week for a full-term class. This same class would require about 6 additional hours of outside-of-classroom work such as reading, homework, paper writing, research, etc., for a total number of hours per week of 9.

Academic Freedom

The district, the colleges, and unit members will adhere to the following in regard to academic freedom:

1. Education in a democracy depends upon earnest and unceasing pursuit of truth.
2. Faculty members shall be free to exercise academic freedom, including freedom of investigation, freedom of discussion in the classroom, freedom to select texts and other instructional materials, freedom of assignment of instructional exercises, and freedom of evaluation of student efforts.
3. Faculty members acknowledge that in the exercise of academic freedom they have a responsibility to be accurate and comprehensive in making reports, to be fair-minded in making interpretations and judgments, to respect the freedoms of other persons, to exclude irrelevant matters from classroom discussions and instructional exercises, and to make appropriate distinctions between statements of fact made as faculty subject matter specialists and opinions made as private citizens.
4. The college recognizes the fundamental right of the faculty member to be free from any censorship or restraint which might interfere with the faculty member’s obligation to pursue truth and maintain their intellectual integrity in the performance of their teaching functions.

Academic Honesty

The administration, faculty, and staff at Cerro Coso Community College believe that students are entitled to the finest education that the college can make available to them. At the same time, however, a student’s achievement and proficiency in subject matter must include the realization that there are standards of academic honesty which should prevail in all one’s endeavors.

Accordingly, this realization further requires that each student exert every effort to maintain these standards.

Plagiarism and Cheating

Source: Regulations at California State University, Long Beach, General Catalog, 1990-1991, page 56.

Definition of Plagiarism

Plagiarism is defined as the act of using the ideas or work of another person or persons as if they were one’s own, without giving credit to the source. Such an act is not plagiarism if it is ascertained that the ideas were arrived at through independent reasoning or logic or where the thought or idea is common knowledge.

Acknowledgment of an original author or source must be made through appropriate references, i.e., quotation marks, footnotes, or commentary. Examples of plagiarism include, but are not limited to, the following: the submission of a work, whether in part or in whole, completed by another, failure to give credit for ideas, statements, facts, or conclusions which rightfully belong to another; in written work, failure to use quotation marks when quoting directly from another, whether it be a paragraph, a sentence, or even part thereof; close and lengthy paraphrasing of another’s writing or programming. A student who is in doubt about the extent of acceptable paraphrasing should consult the instructor.

Students are cautioned that, in conducting their research, they should prepare their notes by (a) either quoting material exactly (using quotation marks) at the time they take notes from a source; or (b) departing
completely from the language used in the source, putting the material into their own words. In this way, when the material is used in the paper or project, the student can avoid plagiarism resulting from verbatim use of notes. Both quoted and paraphrased materials must be given proper citations.

Definition of Cheating

Cheating is defined as the act of obtaining or attempting to obtain academic credit for work by the use of any dishonest, deceptive or fraudulent means. Examples of cheating during an examination include, but are not limited to, the following: copying, either in part or in whole, from another's test or examination; discussion of answers or ideas relating to the answers on an examination or test unless such discussion is specifically authorized by the instructor; giving or receiving copies of an examination without the permission of the instructor; using or displaying notes, cheat sheets, or other information or devices inappropriate to the prescribed test conditions, as when a test of competence includes a test of unassisted recall of information, skill, or procedure; allowing someone other than the officially enrolled student to represent the same.

It is often appropriate for students to study together or to work in teams on projects. However, such students should be careful to avoid the use of unauthorized assistance, and to avoid any implication of cheating, by such means as sitting apart from one another in examinations, presenting the work in a manner which clearly indicates the effort of each individual, or such other method as is appropriate to the particular course.

The Academic Senate of Cerro Coso Community College enforces the District Policy 4F8G as the following:

Every instructor has the responsibility and authority for dealing with such instances of cheating and plagiarism as may occur in class. An instructor who determines that a student has cheated or plagiarized has a responsibility for reporting the misconduct. The student may face a range of sanctions as stated in the college's Student Conduct Policy. Finally, it must be understood that a student who knowingly aids in another student's cheating or plagiarism e.g., permitting the other student to copy a paper or examination question, is as guilty as the other of the offense.

A student charged with cheating or plagiarism is entitled to appeal that charge by means of the college's Student Conduct Policies and Procedures.

Academic Renewal

A maximum of 20 units of substandard grades ("D" and "F" and "NP" grades) previously recorded which are not reflective of a student's present demonstrated ability may be disregarded for the purpose of determining the grade point average (GPA). This may be accomplished under the following conditions:

1. At least five years have elapsed since the course work to be disregarded was completed.
2. Following the most recent grade to be disregarded a student must have:
   a. completed a minimum of 12 units at a regionally accredited institution with a minimum of a 2.0 GPA
   b. and where more than 12 units have been completed the student’s cumulative GPA (not including the grades to be disregarded) must be a minimum of a 2.0 GPA.
3. The student must complete a petition for Academic Renewal with the assistance of a Cerro Coso Community College Educational Advisor or Counselor for submittal to the Academic Petitions Committee. The petition must certify in writing all of the following:
   a. that the past course work they wish to have disregarded is substandard and not representative of present scholastic ability and level of performance
   b. that the level of performance represented by the substandard course work was due to extenuating circumstances.

If approved, the substandard work will be disregarded in the computation of the grade point average and an annotation made on the permanent record. The permanent academic record shall remain a true and complete academic history and the coursework disregarded under this policy will remain on the permanent record. Students should be aware that all course
work is subject to reevaluation by each subsequent college attended.

Academic renewal may not be used to raise the GPA in order to qualify for graduation with honors. Academic renewal may not be applied to courses which have previously been used to meet certificate, degree, and/or transfer certification requirements.

If the substandard course work has been taken at another college, the student should make every effort to determine whether that college has an academic renewal (“forgiveness”) policy covering substandard course work.

### Academic Exceptions Policy

The Academic Exceptions Policy provides a process by which students may petition for exceptions to the stated requirements of a Cerro Coso Community College certificate or degree. The petitioning students bear the primary responsibility for initiating this process and ensuring that all necessary documentation and required signatures are provided.

NOTE: All students are advised that any exceptions allowed by Cerro Coso Community College are subject to review and re-evaluation (including denial) by any other college or university to which they may later transfer.

Exceptions may be requested under the following conditions:

1. A single course required for the certificate or degree has not been offered in a timely manner such that students cannot complete their degree when they have otherwise met all requirements for the certificate or degree.

2. A course taken at Cerro Coso Community College or elsewhere, which is not an equivalent course for credit toward the certificate or degree but is related and of equal rigor, may be substituted. Substitution is the recommended option.

3. Substantial revisions in program requirements have eliminated a course and the course is no longer being offered, but using the new program requirements would require additional courses and would not be the student’s preferred catalog choice. (See Catalog Rights)

Students must have completed a minimum of 12 units at Cerro Coso Community College and have a cumulative GPA of 2.0 or better in order to submit an Academic Exceptions Petition.

Students may NOT petition for the waiver of any General Education requirement.

Petitions may be obtained in the Counseling Office.

### Catalog Rights/Continuous Enrollment

Students graduating within five (5) academic years of initial enrollment shall have the option of completing either:
(a) the degree requirements of the college catalog in effect at the time of initial enrollment;
(b) the catalog in effect at the time the student last began continuous enrollment leading to graduation; (c) the catalog in effect at the point of graduation.

For the purpose of catalog rights, an academic record year begins in the fall semester and includes the following spring and summer terms.

To maintain catalog rights, the student must maintain continuous enrollment (no absence of two or more consecutive semesters) at any college within the Kern Community College District during the five (5) year period.

Any academic record symbol (A-F, P, NP, I, IP, RD, W) shall constitute enrollment. Students should contact counseling to petition for an exception based on an approved educational leave. If continuous enrollment is broken, the student must adhere to the graduation requirements in effect at the time continuous enrollment is re-established and maintained.

### Credits Transferred from Other Institutions

Credit earned from other accredited institutions may be transferred to Cerro Coso Community College upon admission. Students will provide official transcripts in a sealed envelope from the institution or electronically through e-transcripts California. Transcripts submitted become the property of Cerro Coso Community College and cannot be returned to the student nor be forwarded to another institution. When a student...
has three consecutive years of non-attendance at Cerro Coso Community College, transcripts from other institutions will be purged from the student’s record. Students planning to graduate or transfer with certification from Cerro Coso Community College, or needing to use courses from another college/university as a prerequisite, must submit all official transcripts to Cerro Coso Community College. Transcripts should be sent to:

Cerro Coso Community College
c/o Admissions and Records Office
3000 College Heights Blvd.
Ridgecrest, CA 93555

An evaluation of submitted transcripts can be requested at the counseling office of the student’s local campus or online at [http://www.cerrocoso.edu/studentservices/counseling/](http://www.cerrocoso.edu/studentservices/counseling/).

**Advanced Placement Program**

Advanced Placement (AP) is a program of college level courses and exams for high school students. Cerro Coso Community College grants credit toward its associate degrees for the successful completion of examinations of the Advanced Placement Program of the College Entrance Examination Board. Students who score a three, four or five may be granted up to six semester units of college credit per examination in accordance with established college standards and upon approval of the appropriate faculty chair. AP credit is awarded as non-GPA applicable transfer units earned.

Additional information may be obtained from the Counseling Center (760) 384-6219.

**Credit by Examination**

Students who have completed 12 units at Cerro Coso Community College with a 2.00 GPA or higher in all college units attempted are eligible to petition for “credit by examination.” A maximum of 30 semester units can be earned toward graduation at Cerro Coso Community College through credit by examination, which may include approved institutional course equivalency examinations, the CLEP Tests, Advanced Placement and appropriate USAFI and DANTES Examinations.

Credit may be granted to any student who satisfactorily passes an examination approved and conducted by proper authorities of Cerro Coso Community College. The granting of such credit is subject to the following qualifications:

1. The student must be in good standing and currently enrolled at Cerro Coso Community College.

2. The student must have completed a minimum of 12 units at Cerro Coso Community College with a grade point average of 2.0 or higher. This requirement may be waived for active duty military personnel in accordance with the provisions of an SOC Contract.

3. The Cerro Coso Community College faculty will determine which courses are eligible for credit-by-examination, as reflected on the Course Outline of Record.

4. All courses challenged must be listed in the College Catalog.

5. The number of units granted for a course will equal the number of units listed for the course in the College Catalog.

6. The course challenged cannot be one in which the student has received academic recognition. A student cannot challenge a course for which they have received upper division college credit.

7. The student may attempt credit by examination only once for a particular course.

8. Courses successfully challenged by examination (grade of “C” or better) will be entered on the student’s transcript and indicated as “Credit by Examination,” with the appropriate earned letter grade.

9. Units earned by examination are not considered as part of the student’s semester study load. Therefore, such units cannot be used for reports to Social Security, Veterans Administration, financial aid, and similar agencies or be considered in determining eligibility for athletics or student offices.

10. A maximum of 30 semester units can be earned through credit-by-exam and can be applied to degree or certificate programs at Cerro Coso Community College.

To apply for Credit by Examination a student obtains a Credit by Examination application form in the...
Counseling Center on the IWV campus or from the college office at other sites.

College Level Examination Program (CLEP)

The College Level Examination Program is a means through which academic credit may be given for nontraditional forms of educational experience. Those who may have reached a college level of education through home or correspondence study, on-the-job training, television courses, military service, or other means may take the CLEP examinations. Credit for the subject area examinations will be awarded upon approval of the appropriate faculty chair. Subject examinations are equated with specific courses listed in the current College Catalog.

Cerro Coso Community College recognizes the College Level Examination Program conducted by the College Entrance Examination Board in accordance with the following policies:

- **General Examinations:**
  A maximum of 27 units earned through the General Examination may be applied to the Associate Degree General Education requirement. A student must have completed 12 units of work at Cerro Coso Community College before CLEP credit will be awarded. By passing any of the examinations listed below, a student may earn college credit applicable to the Associate in Arts or Associate in Science degree as follows:

<table>
<thead>
<tr>
<th>Examination Title</th>
<th>GE Category</th>
<th>Sem. Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Comp. (with essay)</td>
<td>Language and Rationality</td>
<td>4</td>
</tr>
<tr>
<td>Humanities</td>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Natural Science</td>
<td>Natural Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Social Science-History</td>
<td>Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Language and Rationality</td>
<td>6</td>
</tr>
</tbody>
</table>

- **Subject Examinations:**
  By passing approved examinations, a student may earn college credit applicable to the Associate in Arts or Associate in Science degree. If a CLEP Subject Examination covers the materials in an existing Cerro Coso Community College course, the CLEP Subject Examination will be the challenge examination for that course. Subject examinations, if applicable, will satisfy general education requirements, but they will not meet minimum proficiency requirements.

**NOTE:** Current CLEP English/No Essay may NOT be used to meet English C101 graduation requirement.

Additional information on the college’s CLEP policy is available in the Counseling Center and the Learning Assistance Center.

International Baccalaureate Diploma Program

The International Baccalaureate Organization’s Diploma Program is a comprehensive and rigorous two-year curriculum for university-bound students between the ages of 16 and 19. After completing the courses at the participating high school, students take the related IB examination, and the information is printed on their high school transcripts.

Cerro Coso Community College recognizes the high scholastic quality of the International Baccalaureate Diploma Program and awards credit or placement as approved. Students who plan to enroll at Cerro Coso Community College should submit a copy of their official IB transcript to the Counseling Center for evaluation.

Military Credit

First aid is waived and two units of physical education credit will be awarded for the equivalent of basic training for military personnel now on active duty or veterans who have received a discharge other than dishonorable. Upon verification, evaluation of appropriate records, and department recommendation, credit may be granted for military schools and experience in accordance with the recommendations of the American Council on Education.

Peace Corps or Other Public Service

Two units of general elective credit may be awarded for the usual period of training or indoctrination.

Tech Prep Program

The Tech Prep Program is an integral part of School to Career efforts in Kern, Tulare, and Inyo counties. It is a consortium of 4 community colleges, 40 comprehensive high schools, 4 regional occupation centers, 22 continuation/independent study high schools, and 4 adult schools.
The Cerro Coso Community College Tech Prep Program provides opportunities for a smooth transition from high school into an Associate degree or certificate program at the community college without the need to repeat articulated courses.

Students who have fulfilled the requirements of the articulation agreement will receive the appropriate number of Cerro Coso Community College units of credit for each course completed.

**Final Examinations**

A final examination or evaluation is required in all courses. Instructors will give final examinations or evaluations at the regularly scheduled time.

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**Grading System**

Evaluation of student achievement is made in relation to the attainment of specific course objectives. At the beginning of a course, the instructor will explain the course objectives and the basis upon which grades are determined. Grades and grade points are earned in each course on a semester basis and the student’s level of achievement is recorded on his/her permanent transcript of record by one of the following: (Title V, Sections 51301, 51302, 51306)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4 per unit</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3 per unit</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
<td>2 per unit</td>
</tr>
<tr>
<td>D</td>
<td>Passing, less than satisfactory</td>
<td>1 per unit</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td>0 per unit</td>
</tr>
<tr>
<td>P</td>
<td>Pass (<em>C</em> level work or above issued beginning Spring 2009)</td>
<td>Not computed in GPA</td>
</tr>
<tr>
<td>NP</td>
<td>No Pass (less than satisfactory or failing) issued beginning Spring 2009</td>
<td>No computed in GPA</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal (Excessive &quot;W&quot;s shall be used as factors in academic probation and disqualification)</td>
<td>No computed in GPA</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete (See below)</td>
<td>Not computed in GPA</td>
</tr>
<tr>
<td>IP</td>
<td>In Progress (See below)</td>
<td>Not computed in GPA</td>
</tr>
</tbody>
</table>

I - A grade of “I” indicates the student has not completed the requirements of the course. Incomplete academic work for unforeseeable, emergency, and justifiable reasons at the end of the term may result in an “I” symbol being entered in the student’s record. The condition for removal of the “I” shall be stated by the instructor in a written record. This record shall contain the conditions for removal of the “I” and the grade assigned in-lieu of its removal. This record must be given to the student with a copy on file with the registrar until the “I” is made up or the time limit has passed.

IP - The “IP” indicates the course extends beyond the normal end of an academic term and work is in progress, or the student has applied for in-progress status in those courses listed as open-entry/open-exit courses and has been approved by the instructor to register and complete course requirements in a succeeding semester in order to receive credit and a course grade. In open-entry/open-exit courses, the instructor must submit an evaluative grade which will be entered on the permanent record if the student does not re-enroll in that course during the subsequent attendance period. The “IP” cannot be given more than twice for any particular course.

**Pass/No Pass Grading**

Pass/No Pass (P/NP) is a grading system which allows students to take courses outside of their major field without the risk of jeopardizing their grade point average. Students who elect P/NP grading will only be granted credit in the course if they earn the equivalent of “C” or better; if they earn less than a “C” grade, no credit will be awarded. In either case, no letter grades are given and the results are not computed in determining a student’s grade point average.

Regulations and procedures for Pass/No Pass (P/NP) Grading are: (Title V, Section 55752)

1. P/NP grading may not be used for courses in a student’s major field.
2. Units earned shall not be used to calculate grade point averages. However, units attempted for which “NP” is recorded shall be considered in probation and dismissal procedures.
3. A student must file or rescind a petition in the Office of Admissions and Records to take a course under P/NP grading no later than the first 20% of the term (end of the third week or equivalent).
4. Students planning to transfer to a 4-year college or university should note the following:
   a. “P” grades cannot be used in determining your GPA at the University of California or comparable institutions.
   b. The four-year school a student plans to attend should be consulted to determine whether or not it will accept “P” units.
   c. Some state colleges and universities stipulate that courses used to satisfy General Education requirements may not be taken for this type of grading.

Grade Point Average (GPA)

GPA = total grade points earned divided by total semester units attempted. “Total grade points earned” is obtained by multiplying the grade point value of the specific letter grade (A = 4.0) by the unit value of the course. A student’s work is considered satisfactory when an average grade of “C” (grade point value of 2.0) or better is maintained.

Grades

Grades are available to students via InsideCC online. Students needing an unofficial hard copy of their grades for employers, etc., may print a copy from their InsideCC account under student records, academic transcripts.

In the absence of error, fraud, incompetence, or bad faith, the determination of the student’s grades by the instructor shall be final once they have been filed in the Office of Admissions and Records.

Graduation with Honors

Students who have completed at least 60 units in degree-applicable, letter-graded courses, have taken at least 12 of those units at Cerro Coso Community College, and who have earned a cumulative grade point average of 3.50 or higher are eligible for graduation with honors. The honors designation will appear on the diploma and transcript as follows:

<table>
<thead>
<tr>
<th>Grade Point Average</th>
<th>Honor Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.50-3.69</td>
<td>Cum laude</td>
</tr>
<tr>
<td>3.70-3.89</td>
<td>Magna cum laude</td>
</tr>
<tr>
<td>3.90-4.00</td>
<td>Summa cum laude</td>
</tr>
</tbody>
</table>

Phi Theta Kappa Honor Society

Cerro Coso Community College is the Beta Kappa Chi chapter of Phi Theta Kappa, the International Honor Society of the Two Year College, founded in 1918. Its mission is to encourage the academic achievement of two-year college students and provide development opportunities through participation in leadership and service. Phi Theta Kappa also offers more than $36 million in scholarships to its members. To be eligible, students must have a minimum 3.50 GPA in 12 or more units of degree- or transfer-level coursework and must maintain a minimum 3.25 GPA until graduation. To become a member of Phi Theta Kappa, eligible students complete an application and pay the one-time membership fees.

Contact: Christine Swiridoff, (760) 384-6312 or cswirido@cerrocoso.edu
Website: http://www.cerrocoso.edu/campuslife/clubs/ptk/.
Students have many different goals in mind when they enroll at Cerro Coso Community College. Some plan to earn a certificate to enhance their job skills, while others want to earn a two-year degree, and some plan to transfer to a four-year university. Cerro Coso Community College offers the following certificate and degree programs:

- Associate in Arts and Associate in Science degrees can be used to obtain necessary skills for a range of possible careers, or they may be used to transfer to a four-year institution.
- Certificates of Achievement are awarded to students who complete formal instructional programs that are designed to prepare them for a specific field of endeavor, typically a career field with prospects of employment. These programs most often consist of at least 18 units but some are as low as 12.
- Job Skills Certificates are awarded upon the satisfactory completion of coursework less than 18 units in a specific area of study.

Each degree requires students to meet all graduation and general education requirements. Students who plan to seek immediate employment rather than to transfer usually choose to meet the Cerro Coso Community College General Education Requirements. See page 40.

Students who wish to transfer to a four-year school select the California State University General Education Breadth see page 40 to transfer to a California State University or the Intersegmental General Education Transfer Curriculum (IGETC) see page 42 to transfer to either a University of California Campus or a California State University Campus.

**Graduation with an Associate Degree**

The California State Board of Education has authorized the Kern Community College District Board of Trustees to confer the Associate in Arts degree and the Associate in Science degree upon students receiving the recommendation of Cerro Coso Community College faculty. The Associate in Arts degree (AA) is awarded primarily in the liberal arts areas and is intended for students who plan to transfer to a four-year college or university. The Associate in Science degree (AS) is awarded in well-defined programs in science, technical, and vocational fields of study.

A candidate for either degree must complete the requirements outlined below (1 through 6) and must file a petition at the beginning of the semester in which all requirements will be completed. An alternate plan is to complete the Intersegmental General Education Transfer Curriculum (IGETC) or CSU General Education Certification and a minimum of 60 transferable units.

1. **Total Units:** Satisfactory completion of a minimum of 60 associate degree semester units. Units applied to meet graduation requirements cannot include pre-collegiate basic skills courses. These courses are not degree applicable. See Course Numbering System on page 90 for more information.

2. **Scholarship:** A cumulative grade point average (GPA) of 2.0 (“C” average) in all courses required for the degree.

3. **Residence:** At least 12 of the 60 semester units must be completed at Cerro Coso Community College.

4. **Major:** Satisfactory completion of at least 18 semester units of study in a major program of study. Course work used to satisfy general education requirements can also be used to satisfy major field requirements. All major courses must be completed with a “C” or better.

5. **Minimum Proficiencies for Graduation:** All associate degree students must meet required levels of proficiency standards in the areas of writing, reading, and mathematics for graduation from Cerro Coso Community College. Levels are determined by the multiple measures assessment process in which a student meets with a counselor and discusses the results of the assessment test as well as other factors including other college coursework and high school grades. During the first semester of enrollment, students should take courses which will lead to the required level of proficiency and continue in such courses until Level 1 is
Required course work on each level must be successfully completed with a grade of "C" or better before moving to the next level (see charts on pages 38 and 39). The levels of proficiency in each area are outlined below.

Writing - On the basis of writing level attained through the assessment process, the courses required to reach proficiency Level 1 are as follows:

- Level 1 - Minimum Standards satisfied.
- Level 2 - ENGL C101 or ENGL C151 (course credit may be applied to graduation requirement in Language and Rationality)
- Level 3 - ENGL C070 (course credit applicable to Associate Degree as an elective)
- Level 4 - ENGL C040 (course credit not applicable to Associate Degree; does not apply to graduation)
- Level 5 - ENGL C030 (course credit not applicable to Associate Degree; does not apply to graduation)

Reading - On the basis of reading level attained through the assessment process, the courses required to reach proficiency Level 1 are as follows:

- Level 1 - Minimum standards satisfied. No reading course required.
- Level 2 - READ C056 (course credit applicable to Associate Degree as an elective)
- Level 3 - READ C046 (course credit not applicable to Associate Degree; does not apply to graduation)
- Level 4 - READ C036 (course credit not applicable to Associate Degree; does not apply to graduation)

Mathematics - On the basis of the math level attained through the assessment process, the courses required to reach proficiency Level 1 are as follows:

- Level 1 - Minimum standards satisfied. No math course required.
- Level 2 - MATH C055, C056, C057
- Level 3 - MATH C050
- Level 4 - MATH C040 (course credit not applicable to Associate Degree; does not apply to graduation)
- Level 5 - MATH C020 (course credit not applicable to Associate Degree; does not apply to graduation)

Experience in Advanced Mathematics: Students can also meet Minimum Proficiency through one of the following ways:

- Have an official record of a grade of "C" or better in a course with a prerequisite of MATH C050 or higher, such as MATH C056, MATH C057, MATH C101, or equivalent from another college.
- Have a grade of "B" or better in both semesters of second-year high school algebra taken within the last two (2) years.
- Receive an appropriate score on the Algebra placement test.

General Education: Complete the General Education pattern (see page 40).
ENGLISH/READING COURSE SEQUENCES

CERRO COSO COMMUNITY COLLEGE  2012-2013 CATALOG

ENGL C020
Literacy Skills

READ C036
Developmental Reading

ENGL C030
Basic Writing Skills

READ C046
Improving Reading Skills

ENGL C040
Improving Basic Writing Skills

READ C056
Intro to College Reading

ENGL C070
Introductory Composition

Supervised Writing Lab

ENGL C101
Freshman Composition

ENGL C102
Critical Thinking Through Literature

ENGL C151
Technical Communication

Additional Transfer Level Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL C11</td>
<td>Intro to Types of Literature</td>
</tr>
<tr>
<td>ENGL C14</td>
<td>Creative Writing: Fiction &amp; Poetry</td>
</tr>
<tr>
<td>ENGL C22</td>
<td>World Literature I</td>
</tr>
<tr>
<td>ENGL C22</td>
<td>World Literature II</td>
</tr>
<tr>
<td>ENGL C23</td>
<td>Survey of British Literature I</td>
</tr>
<tr>
<td>ENGL C23</td>
<td>Survey of British Literature II</td>
</tr>
<tr>
<td>ENGL C23</td>
<td>Introduction to Shakespeare</td>
</tr>
<tr>
<td>ENGL C24</td>
<td>Survey of American Literature I</td>
</tr>
<tr>
<td>ENGL C24</td>
<td>Survey of American Literature II</td>
</tr>
<tr>
<td>ENGL C25</td>
<td>Women’s Literature</td>
</tr>
<tr>
<td>ENGL C249</td>
<td>Multi-Ethnic American Literature</td>
</tr>
</tbody>
</table>
NOTE: All flow charts assume student possesses basic arithmetic and pre-algebra skills (see MATH C020, C040). Suggested sequences, see catalog for graduation requirements.
### TABLE A - GENERAL EDUCATION REQUIREMENTS-AA/AS DEGREE

#### AREA 1: NATURAL SCIENCE
(Choose one of the following two options):

- **OPTION I:** Two courses/min. 6 units; at least one course from each area (life and physical science).
- **OPTION II:** One course/min. 4 units; lecture with corresponding lab from either area (life or physical science).

#### Life Sciences:
- ANTH C121
- BIOL C101
- BIOL C101H
- BIOL C105 (L)
- BIOL C105H
- BIOL C111 (L)
- BIOL C111H (L)
- BIOL C112 (L)
- BIOL C112H (L)
- BIOL C115 (L)
- BIOL C121
- BIOL C122 (L)
- BIOL C125 (L)
- BIOL C141
- BIOL C142 (L)
- BIOL C145
- BIOL C251 (L)
- BIOL C255 (L)
- BIOL C261 (L)

#### Physical Sciences:
- CHEM C101 (L)
- CHEM C111 (L)
- CHEM C113 (L)
- CHEM C113H (L)
- CHEM C221 (L)
- CHEM C223 (L)
- CHEM C223H (L)
- GEOG C101
- GEOG C102 (L)
- GEOG C111 (L)
- GEOL C111 (L)
- PHSC C101
- PHSC C102 (L)
- PHSC C105
- PHSC C111
- PHSC 112
- PHSC C115 (L)
- PHSC C121
- PHSC C122 (L)
- PHSC C125 (L)
- PHSC C131
- PHSC C132 (L)
- PHYS C111 (L)
- PHYS C113
- PHYS C211

#### AREA 2: SOCIAL & BEHAVIORAL SCIENCES
Two courses/min. 6 units/each course from different subgroup.

#### Social:
- ADMJ C101
- ANTH C111
- ANTH C121
- CHDV C104
- CHDV C105
- CHEM C106
- GEOG C131
- PSYC C101
- PSYC C101H
- PSYC C112
- PSYC C211
- PSYC C241
- PSYC C251
- SOCI C101
- SOCI C131 (D)
- HIST C103
- HIST C103H
- HIST C104
- HIST C104H
- HIST C131
- HIST C131H
- HIST C132
- HIST C132H
- HIST C218

#### Economics & Political:
- ECON C101
- ECON C102
- ECON C103
- ENGL C101H
- ENGL C101

#### History:
- HIST C103
- HIST C103H
- HIST C104
- HIST C104H
- HIST C131
- HIST C131H
- HIST C132
- HIST C132H
- HIST C218

#### Interdisciplinary Studies:
- FILM/SPAN C211
- SOCI C210 (D)
- SOCI C220 (D)

#### Ethics Studies:
- HIST C209 (D)

#### AREA 3: HUMANITIES
Two courses/min. 6 units/each course from different subgroup.

#### Active Participation:
- ART C111

#### Area 4: Language & Rationality
Two courses/min. 6 units/each course from each group-“C” or better.

- **English Composition:**
  - ENGL C101
  - ENGL C101H
  - ENGL C101

- **Analytical Thinking:**
  - ENGL C102
  - ENGL C102H
  - ENGL C111
  - ENGL C111H
  - ENGL C190
  - ENGL C221
  - ENGL C221H
  - ENGL C222
  - ENGL C222H
  - ENGL C231
  - ENGL C231H
  - ENGL C232
  - ENGL C232H
  - ENGL C235
  - ENGL C235H
  - ENGL C241
  - ENGL C241H
  - ENGL C242
  - ENGL C242H
  - ENGL C245 (D)

- **Philosophy:**
  - PHIL C101
  - PHIL C101
  - PHIL C161
  - PHIL C164
  - PHIL C205
  - PHIL C215

- **Foreign Language:**
  - ASL C101
  - ASL C102
  - FREN C101
  - LATN C101
  - LATN C102
  - LATN C201
  - LATN C202
  - SPAN C100
  - SPAN C101
  - SPAN C102
  - SPAN C110
  - SPAN C117
  - SPAN C180

- **Interdisciplinary Studies:**
  - FILM/SPAN C211
  - SOCI C210 (D)
  - SOCI C220 (D)

#### Area 5: Information Competency
One course/minimum 1 unit OR pass IC Proficiency Exam. Information Competency:
- IC C075
- PROFICIENCY EXAM

#### Area 6: DIVERSITY
One of the following courses or any diversity general education class (D).

- **Diversity:**
  - ART C101
  - BSAD C152
  - CHDV C125
  - CHDV C241
  - DMA C113
  - ENGL C245
  - ENGL C245H
  - ENGL C249
  - ENGL C249H
  - FILM/SPAN C211
  - HCRS C250
  - HIST C209
  - HMSC C102
  - SOCI C210
  - SOCI C220
  - MUSC C173
  - SOCI C131

#### Area 7: Health & Wellness
Choose from the following options:

- **OPTION I:** One course from the following:
  - CHDV C121
  - HCRS C121
  - HSCI C101
  - PSYC C231

- **OPTION II:** Completion of one of the following:
  - a) PHED C102 and ONE 1-unit PE. Activity Class
  - b) THREE 1-unit PE. Activity Classes
### TABLE B - CSU GENERAL EDUCATION CERTIFICATION

#### AREA A: ENGLISH LANGUAGE COMMUNICATION & CRITICAL THINKING

3 courses; minimum 9 units required

Complete ONE course in Area A1, A2 and A3 with a grade of “C” or better.

<table>
<thead>
<tr>
<th>A1. Oral Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH C101</td>
</tr>
<tr>
<td>SPCH C105</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A2. Written Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL C101</td>
</tr>
<tr>
<td>ENGL C101H</td>
</tr>
<tr>
<td>CLEP</td>
</tr>
<tr>
<td>AP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A3. Critical Thinking</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL C102</td>
</tr>
<tr>
<td>ENGL C102H</td>
</tr>
<tr>
<td>PHIL C205</td>
</tr>
</tbody>
</table>

#### AREA B: SCIENTIFIC INQUIRY & QUANTITATIVE REASONING

3 courses; minimum 10 units required

Complete ONE course in Area B1 and ONE course from Area B2; one course MUST have corresponding lab.

Complete ONE Math course from Area B4 with a grade of “C” or better.

<table>
<thead>
<tr>
<th>B1. Physical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM C101+</td>
</tr>
<tr>
<td>CHEM C111+</td>
</tr>
<tr>
<td>CHEM C111H+</td>
</tr>
<tr>
<td>CHEM C113+</td>
</tr>
<tr>
<td>CHEM C113H+</td>
</tr>
<tr>
<td>CHEM C221+</td>
</tr>
<tr>
<td>GEOG C101</td>
</tr>
<tr>
<td>GEOG C111</td>
</tr>
<tr>
<td>GEOL C111+</td>
</tr>
<tr>
<td>PHSC C101</td>
</tr>
<tr>
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<tr>
<td>PHSC C121</td>
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<tr>
<td>PHSC C125+</td>
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<tr>
<td>PHSC C131</td>
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<tr>
<td>PHSC C141</td>
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<tr>
<td>PHYS C111+</td>
</tr>
<tr>
<td>PHYS C113+</td>
</tr>
<tr>
<td>PHYS C211+</td>
</tr>
<tr>
<td>CLEP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B2. Life Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH C121</td>
</tr>
<tr>
<td>BIOL C101</td>
</tr>
<tr>
<td>BIOL C101H</td>
</tr>
<tr>
<td>BIOL C105+</td>
</tr>
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<tr>
<td>BIOL C111+</td>
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<tr>
<td>BIOL C111H+</td>
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<tr>
<td>BIOL C112+</td>
</tr>
<tr>
<td>BIOL C112H+</td>
</tr>
<tr>
<td>BIOL C121</td>
</tr>
<tr>
<td>BIOL C121H+</td>
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<tr>
<td>BIOL C141</td>
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<td>BIOL C251+</td>
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<tr>
<td>BIOL C255+</td>
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<tr>
<td>BIOL C261+</td>
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<td>CLEP</td>
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<tr>
<th>B3. Laboratory</th>
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<tbody>
<tr>
<td>BIOL C102</td>
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<tr>
<td>BIOL C122</td>
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<tr>
<td>BIOL C142</td>
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<td>BIOG C102</td>
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<td>PHSC C102</td>
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<td>PHSC C112</td>
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<td>PHSC C122</td>
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<tr>
<td>PHSC C132</td>
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<td>CLEP</td>
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<table>
<thead>
<tr>
<th>B4. Mathematics/ Quantitative Reasoning</th>
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<tbody>
<tr>
<td>MATH C121</td>
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<tr>
<td>MATH C121H</td>
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<tr>
<td>MATH C130</td>
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<tr>
<td>MATH C131</td>
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<tr>
<td>MATH C141</td>
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<td>MATH C142</td>
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<td>MATH C151</td>
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<td>MATH C152</td>
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<tr>
<td>MATH C251</td>
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<tr>
<td>MATH C255</td>
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<tr>
<td>MATH C257</td>
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<tr>
<td>CLEP</td>
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</tbody>
</table>

#### AREA C: ARTS & HUMANITIES

3 courses; minimum 9 units required

Select ONE course from Area C1 and ONE from Area C2. Select a THIRD from either area.

<table>
<thead>
<tr>
<th>C1. ARTS</th>
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</thead>
<tbody>
<tr>
<td>ART C101</td>
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<tr>
<td>ART C105</td>
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<tr>
<td>ART C106</td>
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<tr>
<td>ART C106H</td>
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<tr>
<td>ART C111</td>
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<table>
<thead>
<tr>
<th>C2. Humanities</th>
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</thead>
<tbody>
<tr>
<td>ASL C101</td>
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<tr>
<td>ASL C102</td>
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<tr>
<td>ENGL C111</td>
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<tr>
<td>ENGL C111H</td>
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<td>ENGL C141</td>
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<td>ENGL C190</td>
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<td>ENGL C221</td>
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<td>ENGL C221H</td>
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<td>ENGL C222</td>
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<td>ENGL C222H</td>
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<td>ENGL C231</td>
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<td>ENGL C231H</td>
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<td>FREN C102</td>
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<td>LATN C101</td>
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<td>LATN C101H</td>
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<td>LATN C202</td>
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<td>PHIL C101</td>
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<td>PHIL C101H</td>
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<tr>
<td>PHIL C141</td>
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<td>PHIL C161</td>
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<tr>
<td>PHIL C215</td>
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<tr>
<td>SPAN C100</td>
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<td>SPAN C101</td>
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<td>SPAN C102</td>
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<tr>
<td>SPAN C110</td>
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<tr>
<td>SPAN C180</td>
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<td>CLEP</td>
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</tbody>
</table>

#### AREA D: SOCIAL SCIENCES

3 courses; minimum 9 units required

Select ONE course from THREE DIFFERENT subgroups.

<table>
<thead>
<tr>
<th>D1. Anthropology &amp; Archeology</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH C111</td>
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<tr>
<td>ANTH C121</td>
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<tr>
<td>ANTH C131</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>D2. Economics</th>
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</thead>
<tbody>
<tr>
<td>ECON C101</td>
</tr>
<tr>
<td>ECON C102</td>
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<tr>
<td>ECON C103</td>
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<tr>
<td>AP</td>
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</table>

<table>
<thead>
<tr>
<th>D3. Ethnic Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST C209</td>
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<tr>
<td>HIST C210</td>
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<tr>
<td>HIST C220</td>
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</table>

<table>
<thead>
<tr>
<th>D4. Gender Studies</th>
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</thead>
<tbody>
<tr>
<td>SOCI C220</td>
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<tr>
<td>SOCI C131</td>
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<table>
<thead>
<tr>
<th>D5. Geography</th>
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<tbody>
<tr>
<td>GEOG C131</td>
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<table>
<thead>
<tr>
<th>D6. History</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST C103</td>
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<tr>
<td>HIST C103H</td>
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<tr>
<td>HIST C104</td>
</tr>
<tr>
<td>HIST C104H</td>
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<tr>
<td>HIST C131</td>
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<tr>
<td>HIST C131H</td>
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<tr>
<td>HIST C132</td>
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<tr>
<td>HIST C132H</td>
</tr>
<tr>
<td>HIST C209</td>
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<tr>
<td>HIST C218</td>
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<tr>
<td>CLEP</td>
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<table>
<thead>
<tr>
<th>D7. Interdisciplinary Social or Behavioral Science</th>
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<tbody>
<tr>
<td>CHDV C104</td>
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<tr>
<td>CHDV C105</td>
</tr>
<tr>
<td>CHDV C106</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>D8. Political Science &amp; Government</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS C102</td>
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<tr>
<td>POLS C201</td>
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<thead>
<tr>
<th>D9. Psychology</th>
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<tbody>
<tr>
<td>PSYC C101</td>
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<tr>
<td>PSYC C101H</td>
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<tr>
<td>PSYC C211</td>
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<tr>
<td>PSYC C231</td>
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</tbody>
</table>

| PSYC C241 |
| PSYC CLEP |

#### AREA E: LIFELONG LEARNING & SELF-DEVELOPMENT

3 courses; minimum 5 units required

Select ONE course from E1 and TWO courses from E2.

<table>
<thead>
<tr>
<th>E1. Integrated Organism</th>
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<tbody>
<tr>
<td>HSCI C101</td>
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<tr>
<td>PSYC C211</td>
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<tr>
<td>PSYC C231</td>
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<tr>
<td>PSYC C251</td>
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<tr>
<td>CHDV C106</td>
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</table>

<table>
<thead>
<tr>
<th>E2. Activity</th>
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</thead>
<tbody>
<tr>
<td>TWO Physical Education ACTIVITY courses.</td>
</tr>
</tbody>
</table>

#### U.S. HISTORY, CONSTITUTION & GOVERNMENT REQUIREMENT

The CSU system requires students to demonstrate their competence in U.S. History, Constitution and State, and Local Government (Title V, Admin. Code, Section 40404).

<table>
<thead>
<tr>
<th>U.S. History</th>
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<tbody>
<tr>
<td>HIST C131</td>
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<tr>
<td>HIST C131H</td>
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<tr>
<td>HIST C132</td>
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<tr>
<td>HIST C132H</td>
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<td>AP</td>
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</tbody>
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| NOTE: HIST C131 and C132 can be double counted in Area D6. |

<table>
<thead>
<tr>
<th>Constitution &amp; Government</th>
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</thead>
<tbody>
<tr>
<td>POLS C101</td>
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<tr>
<td>POLS C101H</td>
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<tr>
<td>AP</td>
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</tbody>
</table>


### Table C - Intersegmental General Education Transfer Curriculum

#### Area 1: English Communication

- **UC**: 2 courses/minimum 6 semester units; ONE course from A and ONE from B.
- **CSU**: 3 courses/minimum 9 units; Complete ONE course from A, B and C with a grade of “C” or better.

**A. English Composition**
- ENGL C101
- ENGL C101H
- CLEP (CSU only)

**B. Critical Thinking/Communication**
- ENGL C102
- ENGL C102H

**C. Oral Communication**
- SPCH C101
- SPCH C105

#### Area 2: Mathematical Concepts & Quantitative Reasoning

- 1 course; minimum 3 units required
- Must be completed with a grade of “C” or better.

- MATH C121
- MATH C121H
- MATH C130
- MATH C131
- MATH C141
- MATH C151
- MATH C152
- MATH C251
- MATH C255
- MATH C257

#### Area 3: Arts & Humanities

- 3 courses; minimum 9 units required
- Select ONE course from at least TWO DIFFERENT sub-groups.

**A. Arts**
- ART C101
- ART C105
- ART C106
- ART C106H
- MUSC C101
- MUSC C101H
- MUSC C118
- MUSC C173
- THEA C101
- THEA C103
- AP

**B. Humanities**
- ENGL C111
- ENGL C111H
- ENGL C190
- ENGL C221
- ENGL C221H
- ENGL C222
- ENGL C222H
- ENGL C231
- ENGL C231H
- ENGL C232
- ENGL C232H
- ENGL C235
- ENGL C235H
- ENGL C241
- ENGL C241H
- ENGL C242
- ENGL C242H
- ENGL C245
- ENGL C245H
- ENGL C249
- ENGL C249H
- HIST C103
- HIST C103H
- HIST C104
- HIST C104H
- HIST C209
- HIST C224
- LATN C201
- LATN C202
- PHIL C101
- PHIL C101H
- PHIL C141
- PHIL C161
- PHIL C215
- SPAN C201
- SPAN C202
- AP

**C. Oral Communication**
- SPCH C101
- SPCH C105

#### Area 4: Social & Behavioral Sciences

- 2 courses; minimum 7 units required
- Select ONE course from the Physical Sciences and ONE course from the Biological Sciences. One of the courses from either group MUST be taken with its corresponding lab. A lab course that is taken before the corresponding lecture WILL NOT be accepted.

**A. Physical Science**
- CHEM C101*
- CHEM C111*
- CHEM C113*
- CHEM C131H*
- CHEM C211*
- GEOG C101
- GEOG C111*
- GEOG C111*
- GEOG C131
- PHSC C101
- PHSC C102
- PHSC C111
- PHSC C121
- PHSC C122
- PHSC C125*
- PHSC C131
- PHSC C132
- PHYS C111*
- PHYS C113*
- PHYS C211*

**B. Biological Science**
- ANTH C121
- BIOL C101
- BIOL C101H
- BIOL C105*
- BIOL C105H*
- BIOL C105H*
- BIOL C111*
- BIOL C111H*
- BIOL C112*
- BIOL C112H*
- BIOL C121
- BIOL C122*
- BIOL C141
- BIOL C142*
- BIOL C251*
- BIOL C255*
- BIOL C261*

**C. Oral Communication**
- SPAN C180
- SPAN C201
- SPAN C202

One course from each subject area.

#### Area 5: Physical & Biological Sciences

- Required for transfer to UC only
- Proficiency equivalent to two years of high school study in the same language with a “C” or better OR select ONE of the following courses.

- ASL C101
- ASL C102
- LATN C102
- LATN C201
- LATN C202
- SPAN C101
- SPAN C102

#### Area 6: Language Other Than English

- CSU Graduation requirement only
- NOTE: Courses used to meet this requirement may be used to satisfy requirements for IGETC. It is at the discretion of each CSU campus to allow double-counting in this area and AREA 4.

1. POLS C101
   POLS C101H

2. HIST C131
   HIST C131H
   HIST C132
   HIST C132H

#### Important Information & Notes

- ALL courses completed for IGETC MUST be completed with a “C” or better. Each course must have a minimum of 3 semester/4 quarter units. UC credit may be limited.

1) No credit given for an introductory course if it was taken after the more advanced course;

2) credit may be limited for course with overlapping content;

3) duplicate credit WILL NOT be awarded for both the Honors and regular section of a course. Certification is NOT a UC admission requirement or guarantee.
OVERALL REQUIREMENTS
Students must complete a minimum of 60 degree applicable units to include a minimum of 25 units of General Education.
1. A minimum grade-point average of 2.0 (“C”) is required to meet the AA/AS degree requirements.
2. A minimum grade of “C” or better is required in each English, reading and math course, as well as each course taken to complete Major requirements.
3. A minimum of 12 units must be completed at Cerro Coso Community College.

*NOTE: Courses may not be used to satisfy more than one General Education requirement except in the area of Diversity.

MAJOR REQUIREMENTS
Satisfactory completion of at least 18 semester units of study in a specific discipline or related disciplines. Course work used to satisfy general education requirements can also be used to satisfy major field requirements and must be completed with a grade of “C” or better.

a. Associate in Arts degree: a general education major consisting of a program of study intended primarily to prepare the student for transfer to a four-year institution.
b. Associate in Science degree: a science or occupational/career major consisting of a program of 18 or more units of designated courses representing a single area of concentration.

GRADUATION EVALUATION
It is the student’s responsibility to meet with a counselor to request a Graduation Evaluation and Petition to Graduate during the semester that they plan to finish their degree requirements.

Official transcripts of any coursework completed at an institution other than Cerro Coso must be on file prior to completion of a Graduation Evaluation.

*NOTE: These are NOT the general education requirements for transfer. If you plan to transfer to a four-year institution, please contact a counselor.

ADDITIONAL ASSOCIATE DEGREES
Students who hold one Associate degree may qualify for another degree under the conditions that they:

1. Complete all current graduation general education requirements, either through acceptance of previous college credits or by additional course work, and
2. Complete all required major field courses in a recognized general major or occupational/career program as outlined in this catalog. If a student meets the foregoing prerequisites, a second degree may be awarded upon completion of a minimum of 18 units subsequent to the completion of the requirements for the previous degree.

**Two degrees may be awarded to a student within the same semester if all requirements for both degrees are completed within that same semester.

Note: AA degree graduates from the Community College of the Air Force (CCAF) are eligible to earn an AA degree from Cerro Coso.

MINIMUM ADMISSION REQUIREMENTS FOR UC TRANSFER STUDENTS:
1. Complete 60 semester units of transferable college credit (courses numbered 100-299, baccalaureate transferability is subject to review by individual transfer institutions) with a GPA of at least 2.4.
2. Complete the following course pattern, earning a grade of “C” or better in each course:
   a. Two transferable courses in English composition: ENGL 101 AND ENGL 102.
   b. One transferable course in mathematical concepts & quantitative reasoning: MATH 130.
   c. Distribution pattern courses required by the UC campus to which the student transfers.
      Course work from other colleges and universities may be considered for certification, but will need to be evaluated by a Cerro Coso Community College counselor or advisor.

ASSOCIATE ARTS DEGREE
Completion of the CSU General Education Certification and 60 transferable units with a GPA of 2.0, will meet all requirements for an AA degree at Cerro Coso Community College. The CSU GE Certification is important because without it students will be held to the general education requirements specific to the CSU campus to which the student transfers. Coursework from other colleges and universities may be considered for certification, but will need to be evaluated by a Cerro Coso Community College counselor or advisor.

ASSOCIIATE OF ARTS DEGREE
Completion of the CSU General Education Certification and 60 transferable units with a GPA of 2.0, will meet all requirements for an AA degree at Cerro Coso Community College. The CSU GE Certification is important because without it students will be held to the general education requirements specific to the CSU campus to which the student transfers. Coursework from other colleges and universities may be considered for certification, but will need to be evaluated by a Cerro Coso Community College counselor or advisor.

ADVANCED PLACEMENT EXAMINATIONS
Information about AP Exams and how the credit will be applied to the CSU GE Certification is in the College Catalog, which can be obtained at http://www.cerrocoso.edu/ or see a Cerro Coso counselor for more details.

CATALOG RIGHTS
Students graduating within five (5) academic years of initial enrollment shall have the option of completing either: (a) the degree requirements of the College catalog in effect at the time of enrollment; or (b) any set of revised degree requirements published in a subsequent Cerro Coso catalog. Students graduating more than five (5) academic years after initial enrollment must adhere to the specific degree requirements in effect in any Cerro Coso catalog within the five-year period prior to the students’ graduation. To maintain catalog rights, the student must maintain continuous enrollment (no absence of two or more semesters) during the five (5) year period.

Catalog rights apply only to Cerro Coso graduation and program requirements. If other institutions change their requirements for entrance, graduation, satisfaction of general education patterns, or in other ways it may be necessary for the student to meet the new requirements upon transfer, even if continuous enrollment has been maintained.
Applying for Graduation

Students must complete a petition for graduation request during the semester in which all requirements will be completed. Petitions are available in the Counseling office at the student's local campus or by request through Online Counseling. Students must verify their eligibility to graduate with a counselor or academic advisor. Students who qualify will receive their diploma in the mail approximately eight weeks after the end of the semester.

Commencement Ceremonies

Commencement ceremonies are held once each year in May. Students who complete their degree requirements during the fall or spring prior to the ceremony or who will complete them in the following summer are eligible to participate. Students planning to complete during the following summer must:

• need less than seven (7) units for completion
• submit documentation of registration for the required course(s) if the course will be taken at another institution

Multiple Majors

Two degrees in two different majors may be granted if all requirements for both majors are satisfied and an appropriate application for graduation is completed. All requirements for both degrees must be completed within the semester during which the student applies for graduation.

Additional Associate Degrees

Students who hold one Associate degree may qualify for another degree under the conditions that they:

1. Complete all current graduation general education requirements, either through acceptance of previous college credits or by additional course work, and
2. Complete all required major field courses in a recognized general major or occupational/career program as outlined in this catalog. If a student meets the foregoing prerequisites, a second degree may be awarded upon completion of a minimum of 18 units subsequent to the completion of the requirements for the previous degree.

When students return to Cerro Coso Community College for an additional degree, they must follow requirements in the catalog for the year in which they return, even if they are continuously enrolled.

GENERAL EDUCATION

Philosophy

The awarding of an Associate Degree at Cerro Coso Community College is intended to represent more than an accumulation of units. It is intended to lead students through patterns of learning experiences designed to develop certain capabilities and insights. Among these are the ability to think and to communicate clearly and effectively both orally and in writing, to use mathematics, to understand the modes of inquiry of the major disciplines, to be aware of other cultures and times, to achieve insights gained through experience in thinking about ethical problems, and to develop the capacity for self-understanding.

Central to an Associate Degree, General Education reflects the conviction of Cerro Coso Community College that those who receive their degrees share certain basic principles, concepts, and methodologies both unique to and shared by the various disciplines. College-educated persons must be able to use this knowledge when evaluating and appreciating the physical environment, the culture, and the society in which they live. General Education should lead to better self-understanding and involve students in actively examining values inherent in proposed solutions to major social problems.

General Education Learning Outcomes

Upon successful completion of the Cerro Coso local General Education pattern, students will be able to:

Natural Sciences:

• Effectively communicate scientific results, including
graphically, verbally, and in writing.

• Demonstrate competency of the Scientific Method, including the experimental and empirical methodologies characteristic of science and the modern methods and tools used in scientific inquiry.

Social and Behavioral Sciences:

• Describe the method of inquiry used by the social and behavioral sciences.

• Evaluate the operation of societies and social sub-groups.

Humanities:

• Describe how people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation.

• Evaluate the significance of artistic and cultural constructions.

Language and Rationality:

• Use clear and precise language to express logical thought.

• Use a complex symbol system to solve problems.

Information Competency:

• Explain the fundamentals of the research process and documentation style.

• Clearly identify types of information needed to address a research problem and evaluate the credibility of sources.

Diversity:

• Describe and analyze the effects of race, ethnicity, class, gender, sexuality, disability, and/or religion on human interactions.

Health and Wellness:

• Analyze and apply the principles of health and wellness.

General Education Options to Transfer

Universities and colleges prescribe their standards of eligibility for transfer. Students expecting to transfer to a four year institution should carefully check entrance requirements. Cerro Coso Community College students who maintain high scholarship and who complete the required pattern of courses may expect to make a satisfactory transfer to the institution of their choice and achieve junior standing. Students planning to eventually transfer to a four-year institution should make an appointment with a college counselor at the earliest possible date to plan an appropriate course of study.

Associate Degrees for Transfer

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

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.

Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Independent California Colleges and Universities

Students who transfer to independent colleges or universities find that they are given academic credit for most, if not all, of their community college courses. Virtually all institutions give full credit for general education courses and usually for other courses designed for transfer by the community college.

Some colleges and universities stipulate a certain number of completed units before considering students eligible for transfer. Others do not and will accept students at any time.
The requirements are outlined in the respective college catalogs available online and in the Career and Transfer Center at the IWV campus.

**University of California (UC)**

Transfer students may fulfill the lower division breadth and general education requirements for the University of California by completing the Intersegmental General Education Transfer Curriculum (IGETC).

Students who were ineligible for the University of California on the basis of their high school records may be admitted by achieving a grade point average of 2.40 in a minimum of 60 units of community college work designated as baccalaureate level including making up any missing college preparatory subject requirements. Students who were eligible on the basis of their high school record may transfer at any time so long as the community college grade point average is 2.40 or higher.

Students may transfer a maximum of 70 community college units to a UC. After 70 units of transferable credit have been earned, no further unit credit will be granted for community college courses, although courses may still be used to satisfy subject matter requirements.

**Intersegmental General Education Transfer Curriculum (IGETC)**—The Intersegmental Committee of the Academic Senates approved the Intersegmental General Education Transfer Curriculum (IGETC). The IGETC is a series of courses that community college students can use to satisfy lower division general education requirements at any CSU or UC campus.

Prior to transferring, the student must request that the Cerro Coso Community College's Office of Admissions and Records send an IGETC Certification to the appropriate campus. This Certification is subject to change if the student does not maintain continuous enrollment at Cerro Coso Community College.

**California State University (CSU)**

Students who were ineligible for the California State University on the basis of their high school record may be admitted by achieving a grade point average of 2.0 in a minimum of 60 units of community college work designated as baccalaureate level including making up any missing college preparatory subject requirements. Students who were eligible on the basis of their high school record may transfer at any time so long as the community college grade point average is 2.0 or higher.

Students may transfer a maximum of 70 community college units to a state university. After 70 units of transferable credits have been earned, no further unit credit will be granted for community college courses, although courses may still be used to satisfy subject matter requirements.

**California State University Certification Requirement**—Students desiring transfer to the California State University system may conform to either (1) the Intersegmental General Education Transfer Curriculum (IGETC) or (2) CSU General Education Certification. A course taken at another participating institution may be included on Cerro Coso Community College’s certification list if the course would have been certified at the other institution. Students should consult the catalog of the state university of their choice for specific general education information. In some instances, courses required for a given major may not be used for general education purposes even though they are included in the general education list of acceptable courses. Students preparing for a teaching career should become aware of the general education requirements for specific credentials. Students are advised to consult with their counselors for additional information.

**ASSIST**

ASSIST is a web-based articulation and transfer planning system that can be accessed at [http://www.assist.org/](http://www.assist.org/). It describes how course credits earned at one California college or university can be applied when transferred to another. ASSIST is the official repository of articulation for California’s colleges and universities and, therefore, provides the most accurate and up-to-date information available about student transfer in California. For further information, see a counselor.
The philosophy of Cerro Coso Community College is that the educational program of students should be composed of courses of study meaningful to them and appropriate to their unique life goals. Cerro Coso Community College offers the following certificate and degree programs:

- **Associate in Arts and Associate in Science degrees** can be used to obtain necessary skills for a range of possible careers, or they may be used to transfer to a four-year institution.

- **Certificates of Achievement** are awarded to students who complete formal instructional programs that are designed to prepare them for a specific field of endeavor, typically a career field with prospects of employment. These programs most often consist of at least 18 units but some are as low as 12.

- **Job Skills Certificates** are awarded upon the satisfactory completion of coursework less than 18 units in a specific area of study.

Associate degrees can be attained in specific majors offering specialization and depth of instruction. Students earning these major degrees must complete 60 total units in some combination of major coursework with a “C” or better and general education requirements. Students who do not wish to pursue a specialization can still attain an Associate in Liberal Arts by taking 18 units in a designated Area of Emphasis. Liberal Arts options are offered in the areas of Arts & Humanities, Social & Behavioral Sciences, and Mathematics & Science. All of the prescribed coursework within each of these degrees is baccalaureate-applicable and considered appropriate for students who plan to continue their education at a 4-year college or university.

Students should discuss the lower division requirement of specific transfer institutions with a counselor or educational advisor.

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

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.

The AA-T and AS-T Degrees for Transfer offered by Cerro Coso are clearly designated in the pages that follow. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Note: Not all of the majors or programs described in this section are offered at all Cerro Coso Community College sites. Please consult with a counselor or staff member in the Counseling Center or with the counselor/educational advisor at the site where you are enrolled when selecting a degree objective or other program of study.

All programs offered by the college are approved by the Kern Community College Board of Trustees and the California Community College Chancellor’s Office.
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Administration of Justice  
Associate in Science Degree for Transfer (AS-T)

The Associate in Science Degree in Administration of Justice for Transfer (60 units total, 18 units in the major) prepares students for transfer to complete work for a bachelor’s degree in criminal justice or economic crime investigation. Students will be able to describe the individual functions and components of the modern criminal justice system; use introductory concepts of legal research to locate, analyze, and discuss the content of statutory and case law; and explain the underlying cause of antisocial and criminal behavior. Proper selection of curriculum electives further enables students to study other academic disciplines, such as political science, sociology, and public administration. This program is appropriate for students considering law school as well as certain careers in law enforcement. To complete the degree, students must fulfill both of the following requirements:

1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the Kern Community College District Board of Trustees.

2. Obtainment of a minimum grade point average of 2.0

Please note that our local Cerro Coso general education pattern MAY NOT be used to fulfill the requirements of this degree and that all required courses for the degree must be transferable to CSU.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to:

- Describe the individual functions and integrations of the components of the criminal justice system: police, courts, and corrections.
- Use legal research skills to locate, analyze, and discuss the content of statutory and case law.
- Examine criminal justice and/or social science data and explain their significance.
- Explain the underlying causes of antisocial and criminal behavior.
- Apply Constitutional principles to the practice of criminal justice.
- Articulate, either orally or in writing, concepts or theories applicable to the criminal justice system.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Area A - Complete the following courses:

- ADMJ C101 Introduction to Administration of Justice ................................. 3 Units
- ADMJ C105 Concepts of Criminal Law ....................................................... 3 Units

Area B - Select at least 6 units from the following courses:

- ADMJ C115 Legal Aspects of Evidence ..................................................... 3 Units
- ADMJ C121 Community Relations ............................................................. 3
- ADMJ C125 Principles of Investigation ....................................................... 3
- ADMJ C131 Juvenile Procedures ................................................................. 3
- ADMJ C151 Introduction to Corrections ....................................................... 3
- ADMJ C230 Forensic Crime Scene Investigation ........................................ 4

Area C - Select at least 6 units from the following courses:

- MATH C121 Elementary Probability and Statistics .................................... 4 Units
  or MATH C121H Elementary Probability and Statistics – Honors ............. 5
- PSYC C101 General Psychology ................................................................. 3
  or PSYC C101H General Psychology – Honors .................................. 4
- SOCI C101 Introduction to Sociology ........................................................ 3

Complete one of the following general education patterns:

- OPTION B CSU General Education Breadth
- OPTION C IGETC - Intersegmental General Education Transfer Curriculum
Administration of Justice
Associate in Science Degree

The Administration of Justice Associate in Science Degree (60 units total, 21 units in the major) prepares students for careers in the criminal justice field. This course of study offers a broad base of knowledge, which is designed to provide the foundation for the pursuit of advanced studies in criminal justice.

Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and http://www.assist.org/ to identify the courses needed from the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the courses to be taken for a grade. Please consult a counselor and http://www.assist.org/ to determine any limitations on Pass/No Pass grading in major preparation courses.

Completion of the Cerro Coso local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. For more information refer to the general education section of the catalog.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Demonstrate and apply critical thinking skills in dealing with ethical decision making within the criminal justice system.
- Demonstrate the ability to locate resources which enable the resolution of problems within the community and the participants of the criminal justice system.
- Recognize the major impact ethics and morality has on the citizens the law enforcement profession serves and the daily interactions with others within the criminal justice system.
- Develop effective writing skills to properly document law enforcement priorities.
- Demonstrate an understanding of the theory and application of law enforcement rules, regulations, and applicable laws.
- Demonstrate the ability to make the correct decision during critical life-threatening situations.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

ADMJ C101 Introduction to the Administration of Justice.......................... 3 Units
ADMJ C105 Concepts of Criminal Law .............................................. 3
ADMJ C111 Principles and Procedures of the Justice System ..................... 3
ADMJ C115 Introduction to Corrections ............................................... 3
ADMJ C205 California Vehicle Code .................................................. 3
ADMJ C211 Concepts of Enforcement Services .................................... 3
ADMJ C215 Patrol Procedures ......................................................... 3

Select 6 units from the following courses:

ADMJ C125 Principles of Investigation ............................................... 3 Units
ADMJ C131 Juvenile Procedures ....................................................... 3
ADMJ C151 Introduction to Corrections ............................................... 3
ADMJ C205 California Vehicle Code .................................................. 3
ADMJ C211 Concepts of Enforcement Services .................................... 3
ADMJ C215 Patrol Procedures ......................................................... 3

Complete one of the following general education patterns:

OPTION A Cerro Coso Local General Education Pattern
OPTION B CSU General Education Breadth
OPTION C IGETC - Intersegmental General Education Transfer Curriculum
Administration of Justice Certificate of Achievement

Administration of Justice Certificate of Achievement (21 units): Any student completing the courses required for the major qualifies for a certificate in Administration of Justice.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Identify and apply communications skills when interacting with all people.
- Identify the need for understanding diverse populations in the criminal justice field and establish strategies for effectively communicating with those diverse populations.
- Identify the cultural differences found in most communities and apply methods of effectively bridging those differences.
- Demonstrate and apply critical thinking skills in dealing with ethical decision making within the criminal justice system.
- Demonstrate the ability to locate resources which enable the resolution of problems within the community and the participants of the criminal justice system.
- Recognize the major impact ethics and morality have on the citizens the law enforcement profession serves and the daily interactions with others within the criminal justice system.
- Develop effective writing skills to properly document law enforcement priorities.
- Demonstrate an understanding of the theory and application of law enforcement rules, regulations, and applicable laws.
- Demonstrate the ability to make the correct decision during critical life-threatening situations.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

ADMJ C101 Introduction to the Administration of Justice .......................... 3 Units
ADMJ C105 Concepts of Criminal Law ......................... 3
ADMJ C111 Principles and Procedures of the Justice System ........................ 3
ADMJ C115 Legal Aspects of Evidence ........................ 3
ADMJ C121 Community Relations ................................. 3

Select 6 units from the following courses:

ADMJ C125 Principles of Investigation ........................ 3 Units
ADMJ C131 Juvenile Procedures .................................... 3
ADMJ C151 Introduction to Corrections ........................ 3
ADMJ C205 California Vehicle Code .............................. 3
ADMJ C211 Concepts of Enforcement Services ......3
ADMJ C215 Patrol Procedures ......................................... 3

Disclosures
Gainful Employment information for this program may be found at http://www.cerrocoso.edu/academic-programs/.

Business Administration Associate in Arts Degree

The Business Administration Associate in Arts Degree (60 units total, 21 units in the major) is designed to prepare students for transfer at the junior level to California State University programs and colleges offering Bachelor’s degrees in Business, Business Administration, Management Information Systems, or other related degrees.

Upon completion of this degree the student will be able to demonstrate a general understanding of business and apply critical thinking skills to technical and economic issues in a global business environment.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.
You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the courses to be taken for a grade. Please consult a counselor and http://www.assist.org/ to determine any limitations on Pass/No Pass grading in major preparation courses.

Completion of the Cerro Coso local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. For more information refer to the general education section of the catalog.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Demonstrate a general understanding of the nature of business.
- Apply critical thinking skills (analysis, synthesis, evaluation) to technical and economic issues in a business environment.
- Recognize skills necessary to function effectively in the global economy.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

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<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
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<tr>
<td>BSAD C101</td>
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</tr>
<tr>
<td>BSAD C102</td>
<td>Managerial Accounting</td>
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</tr>
<tr>
<td>CSCI C101</td>
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<td>3</td>
</tr>
<tr>
<td>ECON C102</td>
<td>Macroeconomics</td>
<td>3</td>
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<tr>
<td>ECON C103</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MATH C121</td>
<td>Elementary Probability and Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following general education patterns:

- OPTION A Cerro Coso Local General Education Pattern
- OPTION B CSU General Education Breadth
- OPTION C IGETC - Intersegmental General Education Transfer Curriculum

Business Associate in Science Degree

The Business Associate in Science Degree (60 units total, 25 units in the major) is designed to develop skills for an increasingly challenging business environment. This degree is intended to provide a student with a broad preparation for a career in business. Upon completion of this degree, the student will be able to demonstrate a general understanding of business, apply critical thinking skills to technical issues, make legal and ethical decisions in a business environment, analyze issues involved in operating a business in complex, diverse, and international environments, and demonstrate an understanding of financial management.

This degree is not specifically designed for transfer. Students wishing to transfer are advised to consider the Business Administration AA degree.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for a major at a four-year school. If you do plan to transfer, consult a counselor and visit http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Demonstrate a general understanding of the nature of business.
• Apply critical thinking skills (analysis, synthesis, evaluation) to technical issues in a business environment.
• Make legal and ethical decisions in a business context.
• Analyze the issues involved in operating a business in complex, diverse, and international environments.
• Demonstrate an understanding of financial management.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
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<td>BSAD C100</td>
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<tr>
<td>BSAD C101</td>
<td>Financial Accounting</td>
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<td>BSAD C110</td>
<td>Introduction to Personal Finance</td>
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<td>BSAD C131</td>
<td>Business Law</td>
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</tr>
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<td>BSAD C141</td>
<td>Human Relations in Business</td>
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<td>BSAD C152</td>
<td>Managing Diversity in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C251</td>
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<td>3</td>
</tr>
<tr>
<td>CSCI C101</td>
<td>Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following general education patterns:

- OPTION A Cerro Coso Local General Education Pattern
- OPTION B CSU General Education Breadth
- OPTION C IGETC - Intersegmental General Education Transfer Curriculum

Business Certificate of Achievement

The Business Certificate of Achievement (25 units) is designed to provide non-degree seeking students with a broad preparation for a career in business. Upon completion of this certificate, the student will be able to demonstrate a general understanding of business, apply critical thinking skills to technical issues, make legal and ethical decisions in a business environment, analyze issues involved in operating a business in complex, diverse, and international environments, and demonstrate an understanding of financial management.

Complete each course to be applied toward the certificate with a “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes

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

• Demonstrate a general understanding of the nature of business.
• Apply critical thinking skills (analysis, synthesis, evaluation) to technical issues in a business environment.
• Make legal and ethical decisions in a business context.
• Analyze the issues involved in operating a business in complex, diverse, and international environments.
• Demonstrate an understanding of financial management.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

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Disclosures

Gainful Employment information for this program may be found at [http://www.cerrcoso.edu/academic-programs/](http://www.cerrcoso.edu/academic-programs/).
Business Office Technology Associate in Science Degree

The Business Office Technology Associate in Science Degree (60 units total, 30 units in the major) prepares learners for employment in challenging positions as administrative assistants and office managers through courses in communication, industry standard computer applications, business, and bookkeeping in order to meet the needs of the technologically dynamic office.

This degree is not specifically designed for transfer. Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Program Learning Outcomes

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

- Achieve business standards for efficiency, time management, and quality of work while projecting a professional image including ethical standards with respect to privacy, confidentiality, and personal behavior both independently and in group situations.

- Apply fundamental principles of spelling, grammar, and punctuation to a wide variety of business communication messages, documents, and reports appropriate for the intended audience.

- Select, apply, and adapt computer software tools such as word processing, spreadsheet, database, accounting, presentation, and desktop publishing, to business related tasks and assess the logic of the results.

- Analyze and record a variety of business financial transactions such as petty cash, bank deposits, accounts receivable, and accounts payable.

- Apply standard records management procedures when establishing and maintaining systems to classify, organize, store, and retrieve hard copy and electronic files.

- Demonstrate active listening skills to accurately condense and record verbal information, instructions, and ideas.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD C070</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C072</td>
<td>Introduction to Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C145</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BSOT C127</td>
<td>MS PowerPoint</td>
<td>1</td>
</tr>
<tr>
<td>BSOT C131</td>
<td>Basic Computer Keyboarding</td>
<td>1</td>
</tr>
<tr>
<td>BSOT C154</td>
<td>Office Personnel Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C070</td>
<td>Computer Literacy</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C121</td>
<td>Beginning</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C151</td>
<td>Intermediate Word</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C123</td>
<td>Beginning Excel</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C153</td>
<td>Intermediate</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C125</td>
<td>Beginning Access</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C155</td>
<td>Intermediate Access</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C161</td>
<td>Advanced Word</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C171</td>
<td>Introduction to the Internet</td>
<td>1</td>
</tr>
</tbody>
</table>

Select 4 units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI C129</td>
<td>Microsoft Outlook</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C135</td>
<td>Beginning Adobe Acrobat</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C163</td>
<td>Advanced Exce</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C165</td>
<td>Advanced Access</td>
<td>1</td>
</tr>
<tr>
<td>WEXP C101</td>
<td>Introduction to Work Experience</td>
<td>1</td>
</tr>
<tr>
<td>WEXP C102</td>
<td>Occupation and Career</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Complete one of the following general education patterns:

OPTION A       Cerro Coso Local General Education Pattern
OPTION B       CSU General Education Breadth
OPTION C       IGETC - Intersegmental General Education Transfer Curriculum
Business Office Technology Certificate of Achievement

The Business Office Technology Certificate of Achievement (30 units) is designed to prepare learners for employment in challenging positions as administrative assistants and office managers through courses in communication, industry standard computer applications, business, office procedures, and bookkeeping in order to meet the needs of the technologically dynamic office.

Complete each course to be applied toward the certificate with a "C" or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes

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

• Achieve business standards for efficiency, time management, and quality of work while projecting a professional image including ethical standards with respect to privacy, confidentiality, and personal behavior both independently and in group situations.
• Apply fundamental principles of spelling, grammar, and punctuation to a wide variety of business communication messages, documents, and reports appropriate for the intended audience.
• Select, apply, and adapt computer software tools such as word processing, spreadsheet, database, accounting, presentation, and desktop publishing, to business related tasks and assess the logic of the results.
• Analyze and record a variety of business financial transactions such as petty cash, bank deposits, accounts receivable, and accounts payable.
• Apply standard records management procedures when establishing and maintaining systems to classify, organize, store, and retrieve hard copy and electronic files.
• Demonstrate active listening skills to accurately condense and record verbal information, instructions, and ideas.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

- BSAD C070 Business Mathematics ................................3 Units
- BSAD C072 Introduction to Accounting ..........................3
- BSAD C145 Business Communication ............................3
- BSAD C100 Introduction to Business ................................3
- BSOT C100 Introduction to Business Office Technology ............3
- BSOT C127 MS PowerPoint ..........................................1
- BSOT C131 Basic Computer Keyboarding ........................1
- BSOT C131 Intermediate Computer Keyboarding ..............1
- BSOT C154 Office Personnel Seminar .............................3
- CSCI C070 Computer Literacy ......................................1
- CSCI C112 Beginning Word .........................................1
- CSCI C151 Intermediate Word .....................................1
- CSCI C123 Beginning Excel .........................................1
- CSCI C153 Intermediate Excel .....................................1
- CSCI C125 Beginning Access ......................................1
- CSCI C155 Intermediate Access .................................1
- CSCI C161 Advanced Word .........................................1
- CSCI C171 Introduction to the Internet and the World Wide Web .............1

Select 4 units from the following courses:

- CSCI C129 Microsoft Outlook ......................................1
- CSCI C135 Beginning Adobe Acrobat .............................1
- CSCI C163 Advanced Excel .........................................1
- CSCI C165 Advanced Access .......................................1
- WEXP C101 Introduction to Work Experience ......................1
- WEXP C102 Occupation and Career Work Experience ..............1-3

Disclosures

Gainful Employment information for this program may be found at http://www.cerrocoso.edu/academic-programs/.

Business Office Technology Office Assistant Certificate of Achievement

Business Office Technology Office Assistant Certificate of Achievement (18 units): This course of study equips the student with the range of skills necessary to perform the duties of an entry level administrative assistant in today’s technological office. Completers master skills in communication, bookkeeping, office skills, and an essential selection of intermediate computer applications for business. Those completing the Office Assistant Certificate may choose to continue with the
Business Office Technology Associate in Science Degree.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Achieve business standards for efficiency, time management, and quality of work while projecting a professional image including ethical standards with respect to privacy, confidentiality, and personal behavior both independently and in group situations.
- Apply fundamental principles of spelling, grammar, and punctuation to a wide variety of business communication messages, documents, and reports, appropriate for the intended audience.
- Demonstrate intermediate skills and problem solving ability in the use of industry standard applications and technology such as Microsoft Word, Excel, Access, and PowerPoint, to office related tasks.
- Analyze and record a variety of business financial transactions such as petty cash, bank deposits, accounts receivable, and accounts payable.
- Apply standard records management procedures when establishing and maintaining systems to classify, organize, store, and retrieve hard copy and electronic files.
- Demonstrate active listening skills to accurately condense and record verbal information, instructions, and ideas.
- Demonstrate accuracy and efficiency using a desktop calculator to perform business mathematics calculations appropriate for routine office tasks requiring calculation.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

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<tr>
<td>BSOT C100</td>
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<td>3</td>
</tr>
<tr>
<td>BSOT C132</td>
<td>Intermediate Computer Keyboarding</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C121</td>
<td>Beginning Word</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C151</td>
<td>Intermediate Word</td>
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</tr>
<tr>
<td>CSCI C123</td>
<td>Beginning Excel</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C153</td>
<td>Intermediate Excel</td>
<td>1</td>
</tr>
<tr>
<td>CSCI C129</td>
<td>Microsoft Outlook</td>
<td>1</td>
</tr>
<tr>
<td>or CSCI C125</td>
<td>Beginning Access</td>
<td>1</td>
</tr>
<tr>
<td>or CSCI C135</td>
<td>Beginning Adobe Acrobat</td>
<td>1</td>
</tr>
</tbody>
</table>

Business Office Technology Business Office Clerk Certificate of Achievement

Business Office Technology Office Clerk Certificate of Achievement (12 units): This course of study prepares the student to perform basic competencies as an entry level office clerk whether or not the individual has previous office experience. This certificate of achievement is a foundation for the Office Assistant Certificate and the Business Office Technology Certificate or Associate of Science Degree.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Achieve business standards for efficiency, time management, and quality of work while projecting a professional image including ethical standards with respect to privacy, confidentiality, and personal behavior both independently and in group situations.
- Demonstrate introductory skills in the use of software tools such as Microsoft Word, Excel, and Access, to entry level office related tasks such as letter and report creation, basic spreadsheet creation/edit, and data entry.
- Demonstrate active listening skills to accurately condense and record verbal information, instructions, and ideas.
- Demonstrate accuracy and efficiency using a desktop calculator to perform business mathematics calculations appropriate for routine office tasks requiring calculation.
Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

- BSAD C070 Business Mathematics ................................ 3 Units
- BSOT C100 Introduction to Business
- Office Technology ........................................ 3
- BSOT C127 MS PowerPoint .............................................. 1
- BSOT C131 Basic Computer Keyboarding ................. 1
- CSCI C070 Computer Literacy ....................................... 1
- CSCI C121 Beginning Word ........................................... 1
- CSCI C123 Beginning Excel ............................................ 1
- CSCI C125 Beginning Access........................................... 1

Child Development Associate in Arts Degree

The Child Development Associate in Arts Degree (60 units total, 30 units in the major) is designed for students interested in infant, toddler, preschool or school-age education. Students may earn an AA degree in Child Development or an Associate Teacher Certificate, Teacher Certificate, Master Teacher Certificate or Site Supervisor Certificate for completing a defined course of study that requires fewer units than the AA degree. The California Child Development Permit Matrix requirements are reflected in our program allowing students to qualify for the permits required for teaching in programs governed by Title V and funded by contracts with the State of California. Permits are issued by the State Department of Education, California Commission on Teacher Credentialing (not Cerro Coso) and include: Assistant Teacher, Associate Teacher, Teacher, Master Teacher, and Site Supervisor.

All professionals working with children are required to have a clean criminal record, to demonstrate freedom from tuberculosis (TB), and to demonstrate the physical ability to perform all of the duties of a professional position working directly with children.

The requirements for this program are complex.

You MUST meet with a Child Development faculty member AND a counselor.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for the corresponding major at a four-year school. Consult a counselor and visit http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the major courses to be taken for a grade. Please consult a counselor and http://www.assist.org/ to determine any limitations on Pass/No Pass grading in major preparation courses.

Completion of the Cerro Coso local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. For more information refer to the general education section of the catalog.

Program Learning Outcomes

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

- Understand, observe, analyze development from a theoretical perspective including the realms of physical, socio-emotional, and cognitive development from conception through adolescence.
- Develop curriculum appropriate to the individual developmental needs of children from infancy through school-age and across a variety of categories: aesthetic, affective, cognitive, language, physical, and social.
- Demonstrate classroom management skills, working with both small and large groups of children.
- Demonstrate an understanding of the health, safety, and nutrition requirements of programs and children from infancy through school age.
Analyze assessment techniques commonly used in the field of Child Development.

Assess and practice a variety of program models.

Address diversity issues, including special needs, with children, families, and programs in a constructive way.

Take a leadership role in both the profession of Child Development and the in the community through an understanding of advocacy.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

- CHDV C100 Principles and Practices of Teaching .......... 3 Units
- CHDV C102 Introduction to Materials and Curriculum ............................................. 3
- CHDV C104 Child, Family and Community ................ 3
- CHDV C106 Child Growth and Development .......... 3
- CHDV C111 Principles of Child Guidance .................... 3
- CHDV C121 Health, Safety, and Nutrition ................. 3
- CHDV C125 Diversity in Education ................................ 3
- CHDV C200 Observation and Assessment .................. 3
- CHDV C203 Practicum - Field Experience ................... 3

Select 3 units from the following courses:

- CHDV C145 Language and Literature ........................... 3 Units
- CHDV C149 Play and Meaning ........................................ 3

Observation: Students will be required to observe children in group settings. Students are encouraged to do their observations in licensed centers or licensed family child care homes in their community. Licensed-exempt facilities are acceptable.

Complete one of the following general education patterns:

- OPTION A Cerro Coso Local General Education Pattern
- OPTION B CSU General Education Breadth
- OPTION C IGETC - Intersegmental General Education Transfer Curriculum

Conditions of Enrollment
Advisory: Level 1 Reading and Writing Advisories:

Students are expected to read a college level textbook, search articles from professional journals, and assigned readings. Reading Level 1 skills prepare students to succeed in CHDV classes by ensuring that they have the skills to read textbooks, journal articles, and assigned readings and are able to make connections between regulations, theory and best practice. The ability to make these connections adequately prepares students to participate in discussions, formulate answers for quizzes and exams, and summarize materials read. Reading Level 1 skills also ensure that students will have the ability to identify central points, evaluate sources, distinguish fact from opinion, identify bias, and draw inferences.

Students are expected to write summaries of text chapters, journal articles, and assigned readings, as well as to complete a research paper. Writing Level 1 skills prepare students to succeed in CHDV classes by ensuring they are able to write short essays that synthesize lectures and assigned readings and that are free of major spelling and grammatical errors. Writing Level 1 skills ensure that students are able to compose a formal research paper from multiple sources including finding, evaluating, organizing, synthesizing college-level reading materials, and to construct a detailed outline and annotated bibliography that projects the structure of the research paper and reflects the extent of their literature search and the relevance of the sources chosen. Writing Level 1 skills prepare students to use the corrected proof of their outline to draft a research paper that is properly formatted, written in clear and grammatically-correct prose.

Permit
STATE OF CALIFORNIA CHILD DEVELOPMENT PERMIT: The California Commission on Teacher Credentialing grants permits in accordance with the Child Development Permit Matrix. Applications are separate from Cerro Coso Community College and must be submitted to California Commission on Teacher Credentialing. Contact any Child Development faculty member or visit the California Commission on Teacher Credentialing website at http://www.ctc.ca.gov/ for more information regarding the Permit Matrix and Professional Growth Advisors. For all permits, all course work must be completed with a grade of “C” or better.

Child Development Associate Teacher Job Skills Certificate

The Child Development Associate Teacher Job Skills Certificate (12 units) is designed to provide students with the minimal level of education to
work with children in a group setting and includes required classes in the core areas (development; child, family, and community; curriculum).

The California Child Development Permit Matrix requirements are reflected in our program allowing students to qualify for the permits required or teaching in programs governed by Title V and funded by contracts with the State of California. Permits are issued by the State Department of Education, California Commission on Teacher Credentialing (not Cerro Coso) and include: Assistant Teacher and Associate Teacher.

All professionals working with children are required to have a clean criminal record, to demonstrate freedom from tuberculosis (TB), and to demonstrate the physical ability to perform all of the duties of a professional position working directly with children.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

The requirements for this program are complex. You MUST meet with a Child Development faculty member AND a counselor.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Understand, observe, analyze development from a theoretical perspective including the realms of physical, socio-emotional, and cognitive development from conception through adolescence.
- Develop curriculum appropriate to the individual developmental needs of children from infancy through school-age and across a variety of categories: aesthetic, affective, cognitive, language, physical, and social.
- Demonstrate classroom management skills working with both small and large groups of children.
- Assess and practice a variety of program models.
- Address diversity issues, including special needs, with children, families, and programs in a constructive way.
- Take a leadership role in both the profession of Child Development and the in the community through an understanding of advocacy.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

- CHDV C100 Principles and Practices of Teaching ..... 3 Units
- CHDV C102 Introduction to Materials and Curriculum ............................................. 3
- CHDV C104 Child, Family, and Community ............... 3
- CHDV C106 Child Growth and Development ............. 3

Permit
STATE OF CALIFORNIA CHILD DEVELOPMENT PERMIT: The California Commission on Teacher Credentialing grants permits in accordance with the Child Development Permit Matrix. Applications are separate from Cerro Coso Community College and must be submitted to California Commission on Teacher Credentialing. Contact any Child Development faculty member or visit the California Commission on Teacher Credentialing website at http://www.ctc.ca.gov/ for more information regarding the Permit Matrix and Professional Growth Advisors. For all Permits, all course work must be completed with a grade of “C” or better.

Associate Teacher Permit: Associate Teacher Certificate of Proficiency requirements plus experience requirement of 50 days of 3+ hours per day within 2 years.

Child Development Teacher Certificate of Achievement

The Child Development Teacher Certificate of Achievement (24 units) is designed to provide students with the minimal level of education to work with children in a group setting and includes required classes in the core areas (development; child, family, and community; curriculum).

The California Child Development Permit Matrix requirements are reflected in our program allowing students to qualify for the permits required for teaching in programs governed by Title V and funded by contracts with the State of California. Permits are issued by the State Department of Education, California Commission on Teacher Credentialing (not Cerro Coso) and include:
Assistant Teacher, Associate Teacher, and Teacher Permits.

All professionals working with children are required to have a clean criminal record, to demonstrate freedom from tuberculosis (TB), and to demonstrate the physical ability to perform all of the duties of a professional position working directly with children.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

The requirements for this program are complex. You MUST meet with a Child Development faculty member AND a counselor.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Understand, observe, analyze development from a theoretical perspective including the realms of physical, socio-emotional, and cognitive development from conception through adolescence.
- Develop curriculum appropriate to the individual developmental needs of children from infancy through school-age and across a variety of categories: aesthetic, affective, cognitive, language, physical, and social.
- Demonstrate classroom management skills; working with both small and large groups of children.
- Demonstrate an understanding of the health, safety, and nutrition requirements of programs and children from infancy through school age.
- Analyze assessment techniques commonly used in the field of Child Development.
- Assess and practice a variety of program models.
- Address diversity issues, including special needs, with children, families, and programs in a constructive way.
- Take a leadership role in both the profession of Child Development and the in the community through an understanding of advocacy.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

- CHDV C100 Principles and Practices of Teaching ..... 3 Units
- CHDV C102 Introduction to Materials and Curriculum ............................................. 3
- CHDV C104 Child, Family, and Community ............................................. 3
- CHDV C106 Child Growth and Development ............ 3
- CHDV C111 Principles of Child Guidance .................... 3
- CHDV C121 Health, Safety and Nutrition .................... 3
- CHDV C125 Diversity in Education .................... 3

Select 3 units from the following:

- CHDV C200 Observation and Assessment .................. 3 Units
- CHDV C203 Practicum - Field Experience ................... 3

Permit
STATE OF CALIFORNIA CHILD DEVELOPMENT PERMIT: The California Commission on Teacher Credentialing grants permits in accordance with the Child Development Permit Matrix. Applications are separate from Cerro Coso Community College and must be submitted to California Commission on Teacher Credentialing. Contact any Child Development faculty member or visit the California Commission on Teacher Credentialing website http://www.ctc.ca.gov/ for more information regarding the Permit Matrix and Professional Growth Advisors. For all Permits, all course work must be completed with a grade of “C” or better.

Teacher Permit Requirements: Teacher Certificate requirements plus experience of 175 days of 3+ hours per day within 4 years plus 16 general education units in English/Language Arts, Math/Science, Social Sciences, and Humanities/Fine Arts.

Disclosures
Gainful Employment information for this program may be found at http://www.cerrocoso.edu/academic-programs/.

Child Development Master Teacher Certificate of Achievement

The Child Development Master Teacher Certificate of Achievement (33 units) is designed to provide students with a complete educational foundation
to work as a curriculum specialist with children in a group setting and includes required classes in the core areas (development; child, family, and community; curriculum); six specialization units in the curriculum area of the student’s choice; and adult supervision units.

The California Child Development Permit Matrix requirements are reflected in our program allowing students to qualify for the permits required or teaching in programs governed by Title V and funded by contracts with the State of California. Permits are issued by the State Department of Education, California Commission on Teacher Credentialing (not Cerro Coso) and include: Assistant Teacher, Associate Teacher, Teacher and Master Teacher Permits.

All professionals working with children are required to have a clean criminal record, to demonstrate freedom from tuberculosis (TB), and to demonstrate the physical ability to perform all of the duties of a professional position working directly with children.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

The requirements for this program are complex. You MUST meet with a Child Development faculty member AND a counselor.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Understand, observe, analyze development from a theoretical perspective including the realms of physical, socio-emotional, and cognitive development from conception through adolescence.
- Develop curriculum appropriate to the individual developmental needs of children from infancy through school-age and across a variety of categories: aesthetic, affective, cognitive, language, physical, and social.
- Demonstrate classroom management skills working with both small and large groups of children.
- Demonstrate an understanding of the health, safety, and nutrition requirements of programs and children from infancy through school age.
- Analyze assessment techniques commonly used in the field of Child Development.
- Assess and practice a variety of program models.
- Address diversity issues, including special needs, with children, families, and programs in a constructive way.
- Take a leadership role in both the profession of Child Development and in the community through an understanding of advocacy.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

- CHDV C100 Principles and Practices of Teaching..... 3 Units
- CHDV C102 Introduction to Materials and Curriculum............................................. 3
- CHDV C104 Child, Family, and Community........ 3
- CHDV C106 Child Growth and Development......... 3
- CHDV C111 Principles of Child Guidance............. 3
- CHDV C121 Health, Safety and Nutrition............. 3
- CHDV C125 Diversity in Education.................... 3
- CHDV C281 Adult Supervision........................... 3

Select 3 units from the following:

- CHDV C200 Observation and Assessment............ 3 Units
- CHDV C203 Practicum - Field Experience........... 3

Complete 6 specialization units*:

Infant Care Specialization

- CHDV C105 Introduction to Infant Development.... 3 Units
- CHDV C205 Infant and Toddler Curriculum......... 3

OR

School Age Care Specialization

- CHDV C107 School Age Development.................... 3 Units
- CHDV C207 School Age Curriculum.................... 3

OR

Diversity Specialization

- CHDV C125 Diversity in Education.................... 3 Units
- HMSV C102 Cultural Competence in Human Services.............................................. 3
OR Children with Exceptional Needs Specialization

CHDV C125 Diversity in Education ................................ 3 Units
CHDV C241 The Exceptional Child ................................ 3 Units

*Other specializations can be developed. Please contact the Child Development Faculty Chair.

Permit

STATE OF CALIFORNIA CHILD DEVELOPMENT
PERMIT: The California Commission on Teacher Credentialing grants permits in accordance with the Child Development Permit Matrix. Applications are separate from Cerro Coso Community College and must be submitted to California Commission on Teacher Credentialing. Contact any Child Development faculty member or visit the California Commission on Teacher Credentialing website http://www.ctc.ca.gov/ for more information regarding the Permit Matrix and Professional Growth Advisors. For all Permits, all course work must be completed with a grade of “C” or better.

Master Teacher Permit: Teacher Permit requirements plus 2 units Adult Supervision plus 6 specialization units plus experience of 350 days of 3+ hours per day within 4 years plus 16 general education units in English/Language Arts, Math/Science, Social Sciences, and Humanities/Fine Arts.

Child Development Site Supervisor Certificate of Achievement

The Child Development Site Supervisor Certificate of Achievement (33 units) is designed to provide students with a complete educational foundation to work as an administrator of programs serving children in a group setting and includes required classes in the core areas (development; child, family, and community; curriculum); six administration units; and adult supervision units.

The California Child Development Permit Matrix requirements are reflected in our program allowing students to qualify for the permits required or teaching in programs governed by Title V and funded by contracts with the State of California. Permits are issued by the State Department of Education, California Commission on Teacher Credentialing (not Cerro Coso) and include: Assistant Teacher, Associate Teacher, Teacher and Site Supervisor Permits.

All professionals working with children are required to have a clean criminal record, to demonstrate freedom from tuberculosis (TB), and to demonstrate the physical ability to perform all of the duties of a professional position working directly with children.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

The requirements for this program are complex. You MUST meet with a Child Development faculty member AND a counselor.

Program Learning Outcomes

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

- Understand, observe, analyze development from a theoretical perspective including the realms of physical, socio-emotional, and cognitive development from conception through adolescence.
- Develop curriculum appropriate to the individual developmental needs of children from infancy through schoolage and across a variety of categories: aesthetic, affective, cognitive, language, physical, and social.
- Demonstrate classroom management skills working with both small and large groups of children.
- Demonstrate an understanding of the health, safety, and nutrition requirements of programs and children from infancy through school age.
- Analyze assessment techniques commonly used in the field of Child Development.
- Assess and practice a variety of program models.
- Address diversity issues, including special needs, with children, families, and programs in a constructive way.
- Take a leadership role in both the profession of Child Development and the in the community through an understanding of advocacy.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for...
Complete all the following courses:

- CHDV C100 Principles and Practices of Teaching ..... 3 Units
- CHDV C102 Introduction to Materials and Curriculum ............................................. 3
- CHDV C104 Child, Family, and Community ........ 3
- CHDV C106 Child Growth and Development ............ 3
- CHDV C111 Principles of Child Guidance .................... 3
- CHDV C121 Health, Safety and Nutrition .................... 3
- CHDV C125 Diversity in Education .............................. 3
- CHDV C126 Child Growth and Development ............ 3
- CHDV C251 Administration of Child Development Programs I .............. 3
- CHDV C252 Administration of Child Development Programs II ............. 3
- CHDV C281 Adult Supervision ........................................ 3
- CHDV C200 Observation and Assessment .................. 3 Units
- CHDV C203 Practicum - Field Experience ................... 3

Select 3 units from the following:

- CHDV C200 Observation and Assessment .................. 3 Units
- CHDV C203 Practicum - Field Experience ................... 3

**Permit**

**STATE OF CALIFORNIA CHILD DEVELOPMENT PERMIT:** The California Commission on Teacher Credentialing grants permits in accordance with the Child Development Permit Matrix. Applications are separate from Cerro Coso Community College and must be submitted to California Commission on Teacher Credentialing. Contact any Child Development faculty member or visit the California Commission on Teacher Credentialing website at [http://www.ctc.ca.gov/](http://www.ctc.ca.gov/) for more information regarding the Permit Matrix and Professional Growth Advisors. For all permits, all course work must be completed with a grade of “C” or better.

Site Supervisor Permit: Teacher Certificate requirements plus experience of 350 days of 3+ hours per day within 4 years including at least 100 days supervising adults plus 16 general education units in English/Language Arts, Math/Science, Social Sciences, and Humanities/Fine Arts.

**Computer Information Systems Associate in Science Degree**

The Computer Information Systems Associate in Science Degree (60 units total, 28 units in the major) is designed for students pursuing professional employment in computer information systems for business. Students are prepared to pursue a career in network, systems, or database administration; technical and applications support; and computer programming. Designed for both full and part-time students, this program is appropriate to both those currently employed and those seeking to enter this field.

Students completing the CIS AS degree are prepared to transfer to a baccalaureate program in Computer Information Systems, Management Information Systems, or related programs.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for the corresponding major at a four-year school. Consult a counselor and visit [http://www.assist.org/](http://www.assist.org/) to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the major courses to be taken for a grade. Please consult a counselor and [http://www.assist.org/](http://www.assist.org/) to determine any limitations on Pass/No Pass grading in major preparation courses.

Completion of the Cerro Coso local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. For more information refer to the general education section of the catalog.

**Program Learning Outcomes**

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

- Demonstrate sufficient understanding and application of business and related information technology concepts for entry level employment and advancement in the field. This includes an understanding of the fundamentals of computers and computer nomenclature and why they are essential components in business and society.
Demonstrate an understanding of the global system in which computer information systems are practiced including the role of ethics and the impact on society as well as contemporary issues.

Demonstrate preparedness for entry level employment in the field of information technology. This includes areas of focus such as computer hardware, software, networks, and security, or programming.

Demonstrate a basic understanding of relational databases and concepts, including design, creation, and data manipulation.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD C100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C101</td>
<td>Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C241</td>
<td>Introduction to Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C251</td>
<td>Introduction to Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C270</td>
<td>Introduction to Database Design and Management</td>
<td>3</td>
</tr>
<tr>
<td>MATH C130</td>
<td>Finite Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>or MATH C121</td>
<td>Elementary Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>or MATH C131</td>
<td>Business Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>

Select at least 9 units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI C140</td>
<td>A+ Essential Skills for Computers</td>
<td>2</td>
</tr>
<tr>
<td>CSCI C141</td>
<td>A+ Standard Skills for IT Technicians</td>
<td>2</td>
</tr>
<tr>
<td>CSCI C143</td>
<td>Network + Fundamentals of Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C146</td>
<td>Security + Fundamentals of Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C265</td>
<td>Introductory C++ Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C267</td>
<td>Introduction to Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C280</td>
<td>Web Application Development Using PHP</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following general education patterns:

- **OPTION A** Cerro Coso Local General Education Pattern
- **OPTION B** CSU General Education Breadth
- **OPTION C** IGETC - Intersegmental General Education Transfer Curriculum

The Computer Information Systems Certificate of Achievement (28 units) is designed for students pursuing professional employment in computer information systems for business. This certificate provides students with skills to enter the job market as help desk providers, computer support specialists, or entry level programmers.

Complete each course to be applied toward the certificate with a “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes

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

- Demonstrate sufficient understanding and application of business and related information technology concepts for entry level employment and advancement in the field. This includes an understanding of the fundamentals of computers and computer nomenclature and why they are essential components in business and society.

- Demonstrate an understanding of the global system in which computer information systems are practiced including the role of ethics and the impact on society as well as contemporary issues.

- Demonstrate preparedness for entry level employment in the field of information technology. This includes areas of focus such as computer hardware, software, networks, and security, or programming.

- Demonstrate a basic understanding of relational databases and concepts, including design, creation, and data manipulation.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

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</tr>
</thead>
<tbody>
<tr>
<td>BSAD C100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
</tbody>
</table>
CSCI C101 Introduction to Computer Information Systems ............. 3
CSCI C241 Introduction to Telecommunications... 3
CSCI C251 Introduction to Visual Basic Programming ..................................... 3
CSCI C270 Introduction to Database Design and Management ......................... 3
MATH C130 Finite Mathematics ...................................... 4
or MATH C131 Business Calculus ......................................... 4
or MATH C121 Elementary Probability and Statistics... 4

Select at least of 9 units from the following courses:

CSCI C140 A+ Essential Skills for Computers underst... 2 Units
CSCI C141 A+ Standard Skills for IT Technicians .... 2
CSCI C143 Network + Fundamentals of Network Technologies ...................... 3
CSCI C146 Security + Fundamentals of Network Security .......................... 3
CSCI C265 Introductory C++ Programming ............ 3
CSCI C267 Introduction to Java Programming ....... 3
CSCI C280 Web Application Development Using PHP ................................ 3

Disclosures
Gainful Employment information for this program may be found at http://www.cerrocoso.edu/academic-programs/.

Computer Science Associate in Science Degree

The Computer Science Associate in Science Degree (60 units total, 31 units in the major) is designed to prepare students for transfer to a four-year institution to continue studies in Computer Science or comparable programs. Upon completion of the degree, the student will be able to demonstrate an understanding of the fundamental mathematical and scientific principles underlying computing and information processing, apply knowledge of the principles of computer science to a variety of problems, and understand the fundamentals of computer organization, architecture and data structures.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for the corresponding major at a four-year school. Consult a counselor and visit http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the major courses to be taken for a grade. Please consult a counselor and http://www.assist.org/ to determine any limitations on Pass/No Pass grading in major preparation courses.

Completion of the Cerro Coso local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. For more information refer to the general education section of the catalog.

Program Learning Outcomes

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

- Demonstrate an understanding of the fundamental mathematical, statistical, and scientific principles underlying computing and information processing.
- Apply knowledge of the principles of computer science to a variety of problems.
- Understand the fundamentals of computer organization, architecture and data structures.
- Discuss social computing issues.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

CSCI C252 Introduction to Computer Science ...... 3 Units
CSCI C265 Introductory C++ Programming ............. 3
or CSCI C267 Introduction to Java Programming............ 3
MATH C151 Analytic Geometry and Calculus I ......... 5
MATH C152 Analytic Geometry and Calculus II ...... 5
MATH C251 Analytic Geometry and Calculus III ....... 5
PHYS C111 Mechanics .............................................. 5
PHYS C113 Electricity and Magnetism............... 5
Complete one of the following general education patterns:

OPTION A  Cerro Coso Local General Education Pattern
OPTION B  CSU General Education Breadth
OPTION C  IGETC - Intersegmental General Education Transfer Curriculum

Engineering Associate in Science Degree

The Engineering Associate in Science Degree (60 units total, 33 units in the major) is designed to lay the foundation in mathematics and physics needed for transfer to a broad range of engineering programs, while providing flexibility to tailor additional course of study to a particular 4-year degree program. Students will apply the scientific method to physics and engineering problems, as well as analyze and use basic engineering problem solving methods. See a counselor and consult http://www.assist.org/ for the complete list of courses required for your engineering field and university—the requirements typically total many more than 33 units and the general education areas are often modified.

Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the courses to be taken for a grade. Please consult a counselor and http://www.assist.org/ to determine any limitations on Pass/No Pass grading in major preparation courses.

Completion of the Cerro Coso local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. For more information refer to the general education section of the catalog.

Program Learning Outcomes

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

- Demonstrate math and physics preparation for upper division Engineering courses.
- Apply the scientific method to physics and engineering problems.
- Analyze and use basic engineering problem solving methods required in various engineering disciplines.
- Perform hands-on laboratory and/or field experiments of all Engineering classes safely.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

- ENGR C110 Introduction to Engineering .................... 4 Units
- MATH C151 Analytic Geometry and Calculus I .......... 5
- MATH C152 Analytic Geometry and Calculus II ........ 5
- PHYS C111 Mechanics ...................................................... 5
- PHYS C113 Electricity and Magnetism.......................... 5
- CHEM C111 General Inorganic Chemistry I ................ 5 Units
- CSCI C265 Introductory C++ Programming ............ 3
- DMA C129 3D Solids Modeling with Solid Works ... 3
- ENGR C120 Introduction to Materials Science .......... 4
- ENGR C185 Digital Logic and Design ....................... 4
- ENGR C210 Engineering Mechanics: Statics .............. 3
- ENGR C230 Engineering Circuit Analysis .................... 4
- MATH C251 Analytic Geometry and Calculus III ...... 5
- MATH C255 Ordinary Differential Equations .............. 4
- PHYS C211 Waves, Optics and Modern Physics ...... 5

Select at least 9 units from the following courses:

- CHEM C111 General Inorganic Chemistry I ................ 5 Units
- CSCI C265 Introductory C++ Programming ............ 3
- DMA C129 3D Solids Modeling with Solid Works ... 3
- ENGR C120 Introduction to Materials Science .......... 4
- ENGR C185 Digital Logic and Design ....................... 4
- ENGR C210 Engineering Mechanics: Statics .............. 3
- ENGR C230 Engineering Circuit Analysis .................... 4
- MATH C251 Analytic Geometry and Calculus III ...... 5
- MATH C255 Ordinary Differential Equations .............. 4
- PHYS C211 Waves, Optics and Modern Physics ...... 5

Complete one of the following general education patterns:

OPTION A  Cerro Coso Local General Education Pattern
OPTION B  CSU General Education Breadth
OPTION C  IGETC - Intersegmental General Education Transfer Curriculum
Fire Technology Associate in Science Degree

The Fire Technology Associate in Science Degree (60 units total, 33 units in the major) offers the student the opportunity to develop the professional skills and knowledge necessary to serve as an effective leader and manager in the public safety environment. The program is built around a “core” of courses that focus on broad knowledge and principles central to any fire-related situation - urban, suburban, rural, wildlands or industrial. The program covers the various aspects of the profession, provides content knowledge, and improves employment opportunities in the field, as well as prepares students for entry level management responsibilities and increases technical knowledge necessary for diverse public and private leadership situations.

This degree is not specifically designed for transfer. Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Program Learning Outcomes

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

- Identify minimum qualifications and entry-level skills for firefighter hiring and description the following elements: application process, written exam process, physical agility exam, oral interview, chief’s interview, background investigation, and firefighter probationary process.
- Demonstrate the ability to analyze, appraise, and evaluate fire and emergency incidents and identify components of emergency management and firefighter safety including size-up, report on conditions, Incident Command System, RECEO;
- 10 Standard Firefighting Orders, 18 Situations that Shout “Watch Out”, and common factors associated with injuries and line of duty deaths.
- 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 ordinances, and firefighter health and safety.
- Analyze the causes of fire, determine extinguishing agents and methods, differentiate the stages of the fire and fire development, and compare methods of heat transfer.
- Calculate flow requirements for fire apparatus, diagram a pump and plumbing schematic for fire apparatus, and apply mathematics formulae to hydraulics problems.
- Identify and describe the apparatus used in the fire service, and the equipment and maintenance of fire apparatus and equipment.
- Identify and describe common types of building construction and conditions associated with structural collapse and firefighter safety.
- Differentiate between fire detection and fire suppression systems. Student will design and diagram a wet and dry fire protection system, and identify alarm system components and their operations.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE C101</td>
<td>Fire Protection Organization</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C105</td>
<td>Fire Prevention Technology</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C111</td>
<td>Fire Protection Equipment and Systems</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C115</td>
<td>Building Construction for Fire Protection</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C121</td>
<td>Fire Behavior and Combustion</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C125</td>
<td>Fire Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C131</td>
<td>Wildland Fire Control</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C211</td>
<td>Fire Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 12 units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE C211</td>
<td>Fire Management</td>
<td>3</td>
</tr>
</tbody>
</table>
Complete one of the following general education patterns:

- **OPTION A** Cerro Coso Local General Education Pattern
- **OPTION B** CSU General Education Breadth
- **OPTION C** IGETC - Intersegmental General Education Transfer Curriculum

### Fire Technology Certificate of Achievement

Fire Technology Certificate of Achievement (33 units): Any student completing the courses required for the major qualifies for a certificate in Fire Technology.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

#### Program Learning Outcomes

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

- Identify minimum qualifications and entry-level skills for fire fighter hiring and description the following elements: application process, written exam process, physical agility exam, oral interview, chief’s interview, background investigation, and fire fighter probationary process.
- Demonstrate the ability to analyze, appraise, and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety including size-up, report on conditions, Incident Command System, RECEO, 10 Standard Firefighting Orders, 18 Situations that Shout “Watch Out”, and common factors associated with injuries and line of duty deaths.
- 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 ordinances, and firefighter health and safety.
- Analyze the causes of fire, determine extinguishing agents and methods, differentiate the stages of the fire and fire development, and compare methods of heat transfer.
- Calculate flow requirements for fire apparatus, diagram a pump and plumbing schematic for fire apparatus, and apply mathematics formulae to hydraulics problems.
- Identify and describe the apparatus used in the fire service, and the equipment and maintenance of fire apparatus and equipment.
- Identify and describe common types of building construction and conditions associated with structural collapse and firefighter safety.
- Differentiate between fire detection and fire suppression systems. Student will design and diagram a wet and dry fire protection system, and identify alarm system components and their operations.

#### Courses

*Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.*

Complete all of the following courses:

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>FIRE C101</td>
<td>Fire Protection Organization</td>
<td>3</td>
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<td>3</td>
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<td>FIRE C115</td>
<td>Building Construction for Fire Protection</td>
<td>3</td>
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<tr>
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<td>Fire Behavior and Combustion</td>
<td>3</td>
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<td>FIRE C125</td>
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<td>3</td>
</tr>
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<td>FIRE C131</td>
<td>Wildland Fire Control</td>
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</tr>
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</table>

Select 12 units from the following courses:

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</tr>
</thead>
<tbody>
<tr>
<td>FIRE C211</td>
<td>Fire Management</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C252</td>
<td>Fire Command</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C253</td>
<td>Fire Command 1b</td>
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</tr>
<tr>
<td>FIRE C254</td>
<td>Fire Prevention 1a</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C255</td>
<td>Fire Prevention 1b</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C261</td>
<td>Fire Investigation</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C265</td>
<td>Fire Instructor 1a</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C266</td>
<td>Fire Instructor 1b</td>
<td>3</td>
</tr>
<tr>
<td>FIRE C275</td>
<td>Emergency Vehicle Operation (Driver – Operator)</td>
<td>3</td>
</tr>
</tbody>
</table>
PRoGRAMS oF StuDy

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FIRE C276 Fire Pump Operation (Driver - Operator) ........................................ 3

Disclosures
Gainful Employment information for this program may be found at http://www.cerrocoso.edu//academic-programs/.

General Sciences Associate in Arts Degree

The General Sciences Associate in Arts Degree (60 units total, 20-25 units in the major) is designed to prepare students for upper-division course work after transfer to a four-year science degree program. There are several emphases to the General Sciences Degree in order to meet the needs of students interested in biology, chemistry, and physical sciences. Students will demonstrate mastery of the scientific method, including experimental and empirical methodologies characteristic of modern science.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the major courses to be taken for a grade. Please consult a counselor and http://www.assist.org/ to determine any limitations on Pass/No Pass grading in major preparation courses.

Completion of the Cerro Coso local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. For more information refer to the general education section of the catalog.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

• Perform hands-on laboratory and/or field experiments of all science classes safely.
• Demonstrate mastery of the Scientific Method, including the experimental and empirical methodologies characteristic of science and the modern methods and tools used in scientific inquiry.
• Demonstrate an ability to communicate scientific results, including as appropriate graphically, verbally and in writing.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

BIOLOGY EMPHASIS: The biology emphasis provides students with the core science courses needed for transfer to a four-year institution. Graduates with a biology emphasis are prepared for further studies which allow work in a variety of fields including: biochemistry, biotechnology, botany, ecology, entomology, genetics, health, immunology, medicine, molecular biology, oceanography, pharmacy, teaching, wildlife management, zoology and related clinical fields. Physics requirements for biology majors can vary among institutions. Students should check with a counselor concerning requirements for specific transfer institutions.

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL C111</td>
<td>General Biology</td>
<td>S</td>
</tr>
<tr>
<td>BIOL C112</td>
<td>General Biology II</td>
<td>S</td>
</tr>
<tr>
<td>CHEM C111</td>
<td>General Inorganic Chemistry I</td>
<td>S</td>
</tr>
<tr>
<td>CHEM C113</td>
<td>General Inorganic Chemistry II</td>
<td>S</td>
</tr>
</tbody>
</table>

Complete one of the following general education patterns:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTION A</td>
<td>Cerro Coso Local General Education Pattern</td>
</tr>
<tr>
<td>OPTION B</td>
<td>CSU General Education Breadth</td>
</tr>
<tr>
<td>OPTION C</td>
<td>IGETC - Intersegmental General Education Transfer Curriculum</td>
</tr>
</tbody>
</table>

CHEMISTRY EMPHASIS: This emphasis provides students who are planning on majoring in chemistry, materials science, or chemical engineering at a four-year university with the first
two years of their core chemistry classes. Students should check with a counselor concerning requirements for specific transfer institutions.

Complete all of the following courses:

- **CHEM C111** General Inorganic Chemistry I .......... 5 Units
- **CHEM C113** General Inorganic Chemistry II ........... 5
- **CHEM C221** Organic Chemistry I ......................... 5
- **CHEM C223** Organic Chemistry II ........................... 5

Complete one of the following general education patterns:

- **OPTION A** Cerro Coso Local General Education Pattern
- **OPTION B** CSU General Education Breadth
- **OPTION C** IGETC - Intersegmental General Education Transfer Curriculum

**PHYSICAL SCIENCES EMPHASIS:** Provides students who are planning on majoring in physics, geology, astronomy, or other physical sciences with the necessary lower division courses in mathematics and physics. The Math, Chemistry, and Physics requirements for transfer vary among institutions and students should check with a counselor for the specific requirements.

Complete all of the following courses:

- **MATH C151** Analytic Geometry and Calculus I .......... 5 Units
- **MATH C152** Analytic Geometry and Calculus II ........ 5
- **PHYS C111** Mechanics ........................................... 5
- **PHYS C113** Electricity and Magnetism .................... 5
- **PHYS C211** Waves, Optics and Modern Physics .......... 5

Complete one of the following general education patterns:

- **OPTION A** Cerro Coso Local General Education Pattern
- **OPTION B** CSU General Education Breadth
- **OPTION C** IGETC - Intersegmental General Education Transfer Curriculum

**Human Services Associate in Science Degree**

The Human Services Associate in Science Degree (60 units total, 27 units in the major) prepares students for employment in a broad range of human services settings. It consists of seven core courses and two additional specialized electives courses to develop competencies for specific employment settings. Although some individual courses are offered online, the full certificate is currently not available in online environments.

This degree is not specifically designed for transfer. Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and [http://www.assist.org/](http://www.assist.org/) to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

**Program Learning Outcomes**

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

- Articulate the board concerns and practices of human services industries.
- Demonstrate three core sets of human services skills: conducting an interview, writing an incident report, participate in team meetings, and provide necessary support and referrals to consumers.
- Assess situations for appropriate entry level professional, legal, and ethical responses.
- Use supervisory feedback for improved performance.
- Analyze the cultural components of a human services situation and recommend culturally appropriate interventions.

**Courses**

*Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.*

Complete all of the following courses:

- **HMSV C101** Introduction to Human Services .......... 3 Units
- **HMSV C102** Cultural Competence in Human Services .......... 3
- **HMSV C103** Preparation for Field Work in Human Services .......... 3
- **HMSV C104** Field Work in Human Services .......... 4
PRoGRAMS oF StuDy

Human Services Worker Certificate of Achievement

Human Services Worker Certificate of Achievement (27 units): Any student completing the courses required for the Human Services major qualifies for a certificate in Human Services Worker. The program prepares students for employment in a broad range of human services careers. Certificate consists of seven core courses and two electives. Although individual courses are offered online, the full certificate is currently not available in online environments.

Complete each course to be applied toward the certificate with a grade of "C" or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes

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

- Articulate the board concerns and practices of human services industries.
- Demonstrate three core sets of human services skills: conducting an interview, writing an incident report, participate in team meetings, and provide necessary support and referrals to consumers.
- Assess situations for appropriate entry level professional, legal, and ethical responses.
- Use supervisory feedback for improved performance.
- Analyze the cultural components of a human services situation and recommend culturally appropriate interventions.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

HMSV C101 Introduction to Human Services .......... 3 Units
HMSV C102 Cultural Competence in Human Services .......... 3
HMSV C103 Preparation for Field Work in Human Services .......... 3
HMSV C104 Field Work in Human Services .......... 4
HMSV C116 Case Management .......... 3
CSCI C070 Computer Literacy .......... 1
ENGL C101 Freshman Composition .......... 4

Select 6 units from the following courses:

CHDV C106 Child Growth and Development .......... 3 Units
CHDV C241 The Exceptional Child .......... 3
HMSV C113 Intervention Skills in Human Services .......... 3
PSYC C101 General Psychology .......... 3
PSYC C112 Introduction to Substance Abuse Issues .......... 3
PSYC C211 Lifespan Development .......... 3
PSYC C241 Abnormal Psychology .......... 3
SPCH C105 Interpersonal Communication .......... 3

Disclosures

Gainful Employment information for this program may be found at http://www.cerrocoso.edu/academic-programs/.

Liberal Arts: Arts & Humanities Associate in Arts Degree

The Liberal Arts: Arts & Humanities Associate in Arts Degree (60 units total, 18 units in the area of emphasis) is designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in an “Area of Emphasis.” This emphasis allows students to satisfy general education requirements as well as focus
on transferable course work. It is ideal for students who plan on transferring to California State University (CSU) or University of California (UC) for a major in education or for a major that Cerro Coso does not offer. Please consult with a counselor for information regarding your intended major at the specific college or university of your choice.

Courses in the Liberal Arts: Arts & Humanities AA degree emphasize the study of cultural, literary, and humanistic activities, and artistic expression of human beings. Students evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. This degree is appropriate for students intending to transfer into such majors as Art History, English, Humanities, and Philosophy. If you have questions about whether this degree is an appropriate choice for your major, please consult with a counselor or educational advisor.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for the corresponding major at a four-year school. Consult a counselor and visit [http://www.assist.org/](http://www.assist.org/) to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the area of emphasis and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses of the area of emphasis. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the courses to be taken for a grade. Please consult a counselor and [http://www.assist.org/](http://www.assist.org/) to determine any limitations on Pass/No pass grading in major preparation courses.

Completion of the Cerro Coso Local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. Please consult with a counselor or educational advisor if you have any questions about which option is right for you.

**Program Learning Outcomes**

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

- Describe how people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation.
- Evaluate the significance of artistic and cultural constructions.

**Courses**

*Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.*

Select at least 18 units from the following courses:

- ART C101 Introduction to Art .................................... 3 Units
- ART C105 History of Western Art I ............................. 3
- ART C106 History of Western Art II ............................ 3
- ART C106H History of Western Art II – Honors .............. 4
- ART C111 Two Dimensional Design ............................. 3
- ART C115 3-Dimensional Design ............................... 3
- ART C121 Drawing I .................................................. 3
- ART C131 Painting I ................................................... 3
- ART C141 Ceramics I .................................................. 3
- ART C151 Sculpture I .................................................. 3
- ART C165 Photography I ............................................ 3
- ASL C100 Deaf History .............................................. 3
- ASL C101 American Sign Language I ......................... 4
- ASL C102 American Sign Language II ....................... 4
- ASL C201 Intermediate American Sign Language I .... 4
- ASL C202 Intermediate American Sign Language II ..... 4
- ENGL C102 Critical Thinking Through Literature ........ 3
- ENGL C102H Critical Thinking Through Literature – Honors 4
- ENGL C111 Introduction to Types of Literature ............ 3
- ENGL C111H Introduction to Types of Literature – Honors 4
- ENGL C141 Creative Writing: Fiction and Poetry .......... 3
- ENGL C190 Art of Fiction ........................................... 3
- ENGL C221 World Literature I .................................... 3
- ENGL C221H World Literature I – Honors ..................... 4
- ENGL C222 World Literature II .................................. 3
- ENGL C222H World Literature II – Honors ................. 4
- ENGL C231 Survey of British Literature I: Beginnings-1785 ................................................. 3
- ENGL C231H Survey of British Literature I: Beginnings-1785 4
- ENGL C232 Survey of British Literature II: 1785-Present ................................................. 3
- ENGL C232H Survey of British Literature II: 1785-Present – Honors 4
- ENGL C235 Introduction to Shakespeare ..................... 3

- Evaluate the significance of artistic and cultural constructions.
OPTION A Cerro Coso Local General Education Pattern

Beginnings-1865 – Honors .......................4
or
Beginnings-1865 .......................................... 3

1865-Present – Honors ..............................4
or
1865-Present ................................................. 3

ENGL C241 Survey of American Literature I:
Beginnings-1865 ..............................................3
or
ENGL C241H Survey of American Literature I:
Beginnings-1865 – Honors ..........................4

ENGL C242 Survey of American Literature II:
1865-Present ..................................................3
or
ENGL C242H Survey of American Literature II:
1865-Present – Honors .................................4

ENGL C245 Women’s Literature ..........................3
or
ENGL C245H Women’s Literature – Honors ...........4
ENGL C249 Multi-Ethnic Literature ..........................3
or
ENGL C249H Multi-Ethnic Literature – Honors .......4

FREN C101 Beginning French I. ............................5
HIST C103 Western Civilization ..........................3
or
HIST C103H Western Civilization I – Honors ..........4
HIST C104 Western Civilization ..........................3
or
HIST C104H Western Civilization II – Honors .........4
LATN C102 Elementary Latin II ............................4
LATN C102 Elementary Latin II – Honors ...............4
LATN C201 Intermediate Latin I ...........................4
LATN C202 Intermediate Latin II ..........................4
MUSC C101 Music Appreciation ..........................3
or
MUSC C101H Music Appreciation – Honors ...........4
MUSC C118 History of American Popular Music ......3
MUSC C121 Piano I ...............................................2
MUSC C122 Piano II .............................................2
MUSC C126 Guitar ...............................................2
MUSC C131 Orchesta I .........................................2
MUSC C132 Orchesta II ........................................2
MUSC C141 Community Band I ............................2
MUSC C142 Community Band II ...........................2
MUSC C151 Choir I ...............................................2
MUSC C152 Choir II ..............................................2
MUSC C173 Appreciation of Jazz ..........................3
PHIL C101 Introduction to Philosophy ...................3
PHIL C141 Ethics ...............................................3
PHIL C161 Introduction to Religious Studies .......... 3
PHIL C164 Survey of World Religions ........................3
PHIL C205 Critical and Comparative Reasoning .......4
PHIL C215 History of Western Philosophy ......... 3
SOCI C210 Diversity and Film ..............................3
SOCI C220 Perspectives on Race, Class and Gender 3

Complete one of the following general education patterns:

OPTION A Cerro Coso Local General Education Pattern

OPTION B CSU General Education Breadth

OPTION C IGETC - Interssegmental General Education Transfer Curriculum

Liberal Arts: Mathematics & Science Associate in Arts Degree

Liberal Arts: Mathematics & Science Associate in Arts Degree (60 units total, 18 units in the area of emphasis): The Liberal Arts degrees are designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". This emphasis allows students to satisfy general education requirements as well as focus on transferable course work. It is ideal for students who plan on transferring to California State University (CSU) or University of California (UC) for a major in education or for a major that Cerro Coso does not offer. Please consult with a counselor for information regarding your intended major at the specific college or university of your choice.

Courses in the Liberal Arts: Mathematics & Science AA Degree emphasize the natural sciences which examine the physical universe, its life forms, and its natural phenomena. Courses in math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students completing this degree may be able to transfer to a four-year degree program in teaching, various health career programs, or environmental studies.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for the corresponding major at a four-year school. Consult a counselor and visit http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the area of emphasis and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses of the area of emphasis. A minimum of 12 units must be completed at Cerro Coso Community College.
Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Demonstrate a general understanding of the nature of science, the methods applied in scientific investigations, and the value of those methods in developing a rigorous understanding of the physical world.
- Apply multiple approaches to problem solving, using algebraic, graphical, and numerical methods to solve applied problems in other areas of mathematics, natural sciences, computer graphics, and computer animation.
- Demonstrate mastery of the Scientific Method, including the experimental and empirical methodologies characteristic of science and the modern methods and tools used in scientific inquiry.
- Perform hands-on laboratory and/or field experiments of all science classes safely.
- Identify the difference between science and other fields of knowledge. Perform a critical analysis of a topic in order to determine science from pseudoscience.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Select at least 18 units from the following courses. At least one course must be from Mathematics and at least two courses from the sciences, including one laboratory or field experience course (*).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH C121</td>
<td>Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL C101</td>
<td>Principles of Biology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL C101H</td>
<td>Principles of Biology - Honors</td>
<td>4</td>
</tr>
<tr>
<td>BIOL C102*</td>
<td>Principles of Biology Laboratory</td>
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</tr>
<tr>
<td>BIOL C105*</td>
<td>Concepts of Biology</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL C105H*</td>
<td>Concepts of Biology - Honors</td>
<td>5</td>
</tr>
<tr>
<td>BIOL C111*</td>
<td>General Biology</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL C111H*</td>
<td>General Biology I - Honors</td>
<td>6</td>
</tr>
<tr>
<td>BIOL C112*</td>
<td>General Biology II</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL C112H*</td>
<td>General Biology II - Honors</td>
<td>6</td>
</tr>
<tr>
<td>BIOL C125*</td>
<td>Survey of Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL C121</td>
<td>Survey of Anatomy and Physiology Lecture</td>
<td>3</td>
</tr>
<tr>
<td>BIOL C122*</td>
<td>Survey of Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 145*</td>
<td>Environmental Studies</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL C141</td>
<td>Environmental Studies Lecture</td>
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</tr>
<tr>
<td>BIOL C142*</td>
<td>Environmental Studies Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL C251*</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL C255*</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL C261*</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM C101*</td>
<td>Introduction to Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM C101H*</td>
<td>Introduction to Chemistry - Honors</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 111*</td>
<td>General Inorganic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM C113*</td>
<td>General Inorganic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM C113H*</td>
<td>General Inorganic Chemistry II - Honors</td>
<td>6</td>
</tr>
<tr>
<td>CHEM C221*</td>
<td>Organic Chemistry I</td>
<td>5</td>
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<tr>
<td>CHEM C223*</td>
<td>Organic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM C223H*</td>
<td>Organic Chemistry II - Honors</td>
<td>6</td>
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<tr>
<td>GEOG C101</td>
<td>Physical Geography Lecture</td>
<td>3</td>
</tr>
<tr>
<td>GEOG C102*</td>
<td>Physical Geography Laboratory</td>
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<tr>
<td>GEOL C111</td>
<td>Environmental Geology</td>
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<tr>
<td>or PHSC C101</td>
<td>Physical Earth Sciences Lecture</td>
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</tr>
<tr>
<td>PHSC C102*</td>
<td>Physical Earth Sciences Laboratory</td>
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<tr>
<td>PHSC C115*</td>
<td>Physical Science</td>
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<tr>
<td>or PHSC C111</td>
<td>Concepts of Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>PHSC C112*</td>
<td>Physical Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHSC C121</td>
<td>Elementary Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>PHSC C122*</td>
<td>Elem. Astronomy Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHSC C125*</td>
<td>Astronomy</td>
<td>4</td>
</tr>
<tr>
<td>PHSC C131</td>
<td>Introduction to Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>PHSC C132*</td>
<td>Introduction to Meteorology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS C111*</td>
<td>Mechanics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS C113*</td>
<td>Electricity and Magnetism</td>
<td>5</td>
</tr>
<tr>
<td>PHYS C211*</td>
<td>Waves, Optics and Modern Physics</td>
<td>5</td>
</tr>
<tr>
<td>CSCI C251</td>
<td>Introduction to Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C252</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C265</td>
<td>Introductory C++ Programming</td>
<td>3</td>
</tr>
</tbody>
</table>
Complete one of the following general education patterns:

- **OPTION A** Cerro Coso Local General Education Pattern
- **OPTION B** CSU General Education Breadth
- **OPTION C** IGETC - Intersegmental General Education Transfer Curriculum

**Liberal Arts: Social & Behavioral Sciences Associate in Arts Degree**

The Liberal Arts: Social & Behavioral Sciences Associate in Arts Degree (60 units total, 18 units in the area of emphasis) is designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in an “Area of Emphasis.” This area of emphasis would be an ideal choice for students who plan on transferring to the California State University (CSU) or University of California (UC) as students can satisfy general education requirements, plus focus on transferable coursework that relates to majors at these institutions. Please consult with a counselor for information regarding your intended major at the specific college or university of your choice.

Courses in the Liberal Arts: Social & Behavioral Sciences AA degree emphasize the perspectives, concepts, theories and methodologies of the disciplines that comprise study in the Social and Behavioral Sciences. Students study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies allow students to evaluate how societies and social subgroups operate. This area of emphasis is appropriate for students intending to transfer into such majors as Anthropology, Economics, History, Political Science, and Sociology. If you have questions about whether this Area of Emphasis is an appropriate choice for your major, please consult with a counselor or educational advisor.

Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. Consult a counselor and visit [http://www.assist.org/](http://www.assist.org/) to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the area of emphasis and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses of the area of emphasis. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the major course to be taken for a grade. Please consult a counselor and [http://www.assist.org/](http://www.assist.org/) to determine any limitations on Pass/No Pass grading in preparation courses.

Completion of the Cerro Coso Local General Education pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school depending on your transfer goal you should select Option B or C only. Please consult with a counselor or educational advisor if you have any questions about which option is right for you.

**Program Learning Outcomes**

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

- Identify and apply methods, such as observation, hypothesis development, experimentation, evaluation of evidence, or measurement and data collection, used by social scientists to study human behavior.
- Identify and analyze theories explaining the individual, social, historical, political, or economic activities of men and women.

**Courses**

*Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.*

Select at least 18 units from the following courses:

- **ADMJ C101** Introduction to Administration of Justice .................. 3 Units
- **ANTH C111** Cultural Anthropology ................................. 3
- **ANTH C121** Physical Anthropology ................................. 3
- **ANTH C131** Archaeology .................................................. 3
- **CHDV C104** Child, Family and Community .................. 3
- **CHDV C105** Introduction to Infant Development .... 3
- **CHDV C106** Child Growth and Development ................................. 3
- **ECON C101** Introduction to Economics ................................. 3
You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

**Program Learning Outcomes**

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

- Demonstrate safe work habits and be conscious of safety when working with machinery.
- Read blueprints, interpret drawings, understand specifications, and work within stated tolerances.
- Apply mathematics in the machine tool trade (speeds, feeds, thread measurement, sine bar, related to computer Numerical Controlled equipment (CNC)).
- Operate abrasive cutting machines such as surface, cylindrical internal, and form grinding equipment.
- Demonstrate skills in quality control, inspection, gauging methods, and production control as they relate to manufacturing, design, and production.
- Function on multi-disciplinary teams and communicate effectively in an industrial setting.

**Courses**

*Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.*

Complete all of the following courses:

- **DRFT C111** Engineering Drawing I ......................... 3 Units
- **MCTL C111** Beginning Machine Shop ................. 3
- **MCTL C112** Intermediate Machine Shop ............ 3
- **MCTL C211** Advanced Machine Shop and Tool Problems ......................... 3
- **WELD C101** Oxyacetylene Welding ..................... 3
- **WEXP C101** Introduction to Work Experience ...... 1
- **WEXP C102** Occupational/Career Work Experience ........................................ 1-3

Complete one of the following general education patterns:

- **OPTION A** Cerro Coso Local General Education Pattern
- **OPTION B** CSU General Education Breadth
- **OPTION C** IGETC - Intersegmental General Education Transfer Curriculum

**Machine Tool Technology Associate in Science Degree**

The Machine Tool Technology Associate in Science Degree (60 units total, 20 units in the major) is designed to provide the student with the basic skills and knowledge necessary to enter the machine shop trades and other related fields. This program includes both traditional and “high tech” machine set up and operation training.

This degree is not specifically designed for transfer. Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and [http://www.assist.org/](http://www.assist.org/) to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

Complete one of the following general education patterns:

- **OPTION A** Cerro Coso Local General Education Pattern
OPTION B  CSU General Education Breadth
OPTION C  IGETC - Intersegmental General Education Transfer Curriculum

Machine Tool Technology Certificate of Achievement

Machine Tool Technology Certificate of Achievement (20 units): Any student completing the courses required for the major qualifies for a certificate in Machine Tool Technology.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

• Demonstrate safe work habits and be conscious of safety when working with machinery.
• Read blueprints, interpret drawings, understand specifications, and work within stated tolerances.
• Apply mathematics in the machine tool trade (speeds, feeds, thread measurement, sine bar, related to computer Numerical Controlled equipment (CNC)).
• Operate abrasive cutting machines such as surface, cylindrical internal, and form grinding equipment.
• Demonstrate skills in quality control, inspection, gauging methods, and production control as they relate to manufacturing, design, and production.
• Function on multi-disciplinary teams and communicate effectively in an industrial setting.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

MCTL C111  Advanced Machine Shop.............................. 3
MCTL C211  Advanced Machine Shop and Tool Problems ...................................................... 3
WELD C101  Oxyacetylene Welding................................. 3
WEXP C101  Introduction to Work Experience............... 1
WEXP C102  Occupational/Career Work Experience ........ 1-3

Disclosures
Gainful Employment information for this program may be found at http://www.cerrocoso.edu/academic-programs/.

Management Associate in Science Degree

The Management Associate in Science Degree (60 units total, 32 units in the major) is designed to provide students with the management skills necessary to succeed in today’s technological business environment. Upon completion of this degree, the student will be able to demonstrate a general understanding of business, apply critical thinking skills to technical and managerial issues, make ethical decisions in a managerial context, and apply management, supervision, and leadership skills in a diverse and complex environment.

This degree is not specifically designed for transfer. Students wishing to transfer are advised to consider the Business Administration AA degree.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for a major at a four-year school. If you do plan to transfer, consult a counselor and visit http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

Management Associate in Science Degree

The Management Associate in Science Degree (60 units total, 32 units in the major) is designed to provide students with the management skills necessary to succeed in today’s technological business environment. Upon completion of this degree, the student will be able to demonstrate a general understanding of business, apply critical thinking skills to technical and managerial issues, make ethical decisions in a managerial context, and apply management, supervision, and leadership skills in a diverse and complex environment.

This degree is not specifically designed for transfer. Students wishing to transfer are advised to consider the Business Administration AA degree.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for a major at a four-year school. If you do plan to transfer, consult a counselor and visit http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to
• Demonstrate a general understanding of the nature of business.
• Apply critical thinking skills (analysis, synthesis, evaluation) to technical and managerial issues in a business environment.
• Demonstrate the ability to make ethical decisions in a managerial context.
• Recognize skills necessary to provide management, supervision, and leadership in a diverse and complex environment.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD C100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C101</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BSAD C102</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BSAD C131</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C145</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C155</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C220</td>
<td>Principles of Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C222</td>
<td>Problem Solving and Computer Applications in Management</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C251</td>
<td>Principles of Management and Organization</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C101</td>
<td>Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following general education patterns:

- OPTION A Cerro Coso Local General Education Pattern
- OPTION B CSU General Education Breadth
- OPTION C IGETC - Intersegmental General Education Transfer Curriculum

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

• Demonstrate a general understanding of the nature of business.
• Apply critical thinking skills (analysis, synthesis, evaluation) to technical and managerial issues in a business environment.
• Demonstrate the ability to make ethical decisions in a managerial context.
• Recognize skills necessary to provide management, supervision, and leadership in a diverse and complex environment.

Management Certificate of Achievement

The Management Certificate of Achievement (32 units) is designed to provide the non-degree seeking student with the management skills necessary to succeed in today’s technological business environment. Upon completion of this certificate, the student will be able to demonstrate a general understanding of business, apply critical thinking skills to technical and managerial issues, make ethical decisions in a managerial context, and apply management, supervision, and leadership skills in a diverse and complex environment.

Complete each course to be applied toward the certificate with a “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

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<tbody>
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<td>BSAD C100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C101</td>
<td>Financial Accounting</td>
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</tr>
<tr>
<td>BSAD C102</td>
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<tr>
<td>CSCI C101</td>
<td>Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>
Mathematics Associate in Arts Degree for Transfer (AA-T)

The Associate in Arts Degree in Mathematics for Transfer (60 units total, 22 units in major) prepares students for transfer to the CSU System to earn a baccalaureate in applied or theoretical mathematics, mathematics education, statistics, engineering, natural or physical science, or economics. Upon successful completion of the program students will be able to apply advanced mathematical concepts such as extending the concepts of derivatives, differentials, and integrals to include multiple independent variables, solving simple differential equations of the first and second order, and analyzing and modeling the behaviors of physical phenomena using calculus. Baccalaureate options for students include General Mathematics, Applied Mathematics, Mathematics Education, Statistics, Physics, Chemistry, Biology, Computer Science, Engineering, Computer Information Systems, Management Information Systems, and Economics. To complete the degree, students must fulfill both of the following requirements:

1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the Kern Community College District Board of Trustees.
2. Obtainment of a minimum grade point average of 2.0

Please note that our local Cerro Coso general education pattern MAY NOT be used to fulfill the requirements of this degree and that all required Courses for the degree must be transferable to CSU.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Use vector-valued functions to describe motion in space.
- Extend the concepts of derivatives, differentials, and integrals to include multiple independent variables.
- Solve simple differential equations of the first and second order.
- Analyze and model the behaviors of physical phenomena by applying advanced calculus concepts.
- Apply broad mathematical concepts to practical applications.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete the following courses:

- MATH C151 Analytic Geometry and Calculus I .......... 5 Units
- MATH C152 Analytic Geometry and Calculus II ........ 5
- MATH C251 Analytic Geometry and Calculus III ....... 5

Choose a minimum of 7 units from below with at least 4 units from Area A:

Area A

- MATH C255 Ordinary Differential Equations ............ 4 Units
- MATH C257 Linear Algebra........................................... 4

Area B

- MATH C121 Elementary Probability and Statistics... 4 Units
- or MATH C121H Elementary Probability and Statistics – Honors .............................. 5
- PHYS C111 Mechanics ...................................................... 5
- CSCI C251 Introduction to Visual Basic Programming ........................................ 3
- CSCI C252 Introduction to Computer Science ...... 3
- CSCI C265 Introductory C++ Programming ............ 3

Complete one of the following general education patterns:

OPTION B  CSU General Education Breadth
OPTION C  IGETC - Intersegmental General Education Transfer Curriculum
Mathematics Associate in Arts Degree

The Mathematics Associate in Arts Degree (60 units total, 29 - 31 units in the major) prepares students for transfer to four-year universities to pursue a Bachelor degree. Bachelor degree options include but are not limited to: General Mathematics, Applied Mathematics, Mathematics Education, Statistics, Physics, Chemistry, Biology, Computer Science, Engineering, Computer Information Systems, Management Information Systems, and Economics.

The degree consists of five required courses comprising 23 units, and another two elective courses comprising six, seven, or eight units, depending on the student’s elective preferences. For example, two computer science electives comprise six units, one computer science elective and one mathematics elective comprise seven units, and two mathematics electives comprise eight units.

Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the courses to be taken for a grade. Please consult a counselor and http://www.assist.org/ to determine any limitations on Pass/No Pass grading in major preparation courses.

Completion of the Cerro Coso local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. For more information refer to the general education section of the catalog.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Demonstrate preparation for upper division mathematics, statistics, science, engineering, or economics courses at the appropriate institution. In particular, students should demonstrate a working knowledge of Calculus I, II, and III, Differential Equations, and Linear Algebra.

- Demonstrate an understanding of academic skills (research, critical thinking, and scientific methods) needed to master specialized fields.

- Demonstrate a general ability to understand and communicate scientific and mathematical information.

- Demonstrate an understanding of the structure of mathematics and its application in the sciences.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH C151</td>
<td>Analytic Geometry and Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH C152</td>
<td>Analytic Geometry and Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH C251</td>
<td>Analytic Geometry and Calculus III</td>
<td>5</td>
</tr>
<tr>
<td>MATH C255</td>
<td>Ordinary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH C257</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Select 6-8 units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI C251</td>
<td>Introduction to Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C265</td>
<td>Introductory C++ Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C267</td>
<td>Introduction to Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>MATH C121</td>
<td>Elementary Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH C130</td>
<td>Finite Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH C131</td>
<td>Business Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following general education patterns:

- OPTION A Cerro Coso Local General Education Pattern
- OPTION B CSU General Education Breadth
- OPTION C IGETC - Intersegmental General Education Transfer Curriculum
Paralegal Studies Associate in Science Degree

The Paralegal Studies Associate in Science Degree (60 units total, 31 units in the major) is designed to prepare students for work in the legal environment as either professional paralegals or legal assistants. Students receive training in all aspects of the legal system including the court system, legal research, client interviews, legal briefs, and court procedures. This course of study is employment preparation for career opportunities with private attorneys, local court jurisdictions, corporate law offices, and self-employment as an independent paralegal.

This degree is not specifically designed for transfer. Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Analyze data and information to assist attorneys with client’s case throughout the legal process.
- Locate and analyze relevant primary and secondary legal sources in electronic and print media.
- Apply investigative functions and techniques to gather information from witnesses and other sources.
- Process legal documents and maintain legal schedules.
- Draft and organize legal documents and records including pretrial preparation.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

- BSAD C131 Business .................................................. 3 Units
- PARA C101 Introduction to Paralegal Studies .......... 3
- PARA C105 Legal Ethics ............................................. 3
- PARA C112 Legal Research and Writing I ............... 3
- PARA C122 Legal Research and Writing II ............. 3
- PARA C130 Civil Litigation and Procedure I ............ 3
- PARA C140 Civil Litigation and Procedure II .......... 3
- PARA C290 Paralegal Studies Internship .................. 2

Select at least 8 units from the following courses:

- PARA C150 Law Office Management ....................... 3 Units
- PARA C220 Bankruptcy Law .................................... 3
- PARA C230 Probate Law .......................................... 3
- PARA C240 Criminal Law and Procedure .............. 3
- PARA C250 Family Law ............................................. 3
- PARA C260 Personal Injury and Tort Litigation ....... 3
- PARA C270 Real Property Law ............................... 2
- PARA C280 Worker’s Compensation Law .............. 2

Complete one of the following general education patterns:

OPTION A Cerro Coso Local General Education Pattern
OPTION B CSU General Education Breadth
OPTION C IGETC - Interssegmental General Education Transfer Curriculum

Paralegal Studies Certificate of Achievement

Paralegal Studies Certificate Of Achievement (31 units): Any student completing the courses required for the Paralegal Studies major qualifies for a certificate in Paralegal Studies. This course of study is employment preparation for career opportunities with private attorneys, local court jurisdictions, corporate law offices, and self-employment as an independent paralegal.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to
• Analyze data and information to assist attorneys with client’s case throughout the legal process.
• Locate and analyze relevant primary and secondary legal sources in electronic and print media.
• Apply investigative functions and techniques to gather information from witnesses and other sources.
• Process legal documents and maintain legal schedules.
• Draft and organize legal documents and records including pretrial preparation.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD C131</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>PARA C101</td>
<td>Introduction to Paralegal Studies</td>
<td>3</td>
</tr>
<tr>
<td>PARA C105</td>
<td>Legal Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PARA C112</td>
<td>Legal Research and Writing I</td>
<td>3</td>
</tr>
<tr>
<td>PARA C122</td>
<td>Legal Research and Writing II</td>
<td>3</td>
</tr>
<tr>
<td>PARA C130</td>
<td>Civil Litigation and Procedure I</td>
<td>3</td>
</tr>
<tr>
<td>PARA C140</td>
<td>Civil Litigation and Procedure II</td>
<td>3</td>
</tr>
<tr>
<td>PARA C290</td>
<td>Paralegal Studies Internship</td>
<td>2</td>
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</tbody>
</table>

Select at least 8 units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARA C150</td>
<td>Law Office Management</td>
<td>3</td>
</tr>
<tr>
<td>PARA C220</td>
<td>Bankruptcy Law</td>
<td>3</td>
</tr>
<tr>
<td>PARA C230</td>
<td>Probate Law</td>
<td>3</td>
</tr>
<tr>
<td>PARA C240</td>
<td>Criminal Law and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>PARA C250</td>
<td>Family Law</td>
<td>3</td>
</tr>
<tr>
<td>PARA C260</td>
<td>Personal Injury and Tort Litigation</td>
<td>3</td>
</tr>
<tr>
<td>PARA C270</td>
<td>Real Property Law</td>
<td>2</td>
</tr>
<tr>
<td>PARA C280</td>
<td>Worker’s Compensation Law</td>
<td>2</td>
</tr>
</tbody>
</table>

Disclosures
Gainful Employment information for this program may be found at http://www.cerrecoso.edu/academic-programs/.

Small Business Management/Entrepreneurship Associate in Science Degree

The Small Business Management/Entrepreneurship Associate in Science Degree (60 units total, 30 units in the major) is designed to provide students with key entrepreneurial skills to succeed in a small business environment. Upon completion of this degree, the student will be able to demonstrate a general understanding of small business management, apply critical thinking skills to technical issues, and solve problems in a small business environment.

This degree is not specifically designed for transfer. Students wishing to transfer are advised to consider the Business Administration AA degree.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for a major at a four-year school. If you do plan to transfer, consult a counselor and visit http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to:

• Demonstrate a general understanding of the nature of business
• Apply critical thinking skills (analysis, synthesis, evaluation) to technical issues in a business environment.
• Recognize skills necessary to solve problems in a small business environment.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:
Small Business Management/Entrepreneurship Certificate of Achievement

The Small Business Management/Entrepreneurship Certificate Of Achievement (30 units) is designed to provide non-degree seeking students with key entrepreneurial skills to succeed in a small business environment. Upon completion of this certificate, the student will be able to demonstrate a general understanding of small business management, apply critical thinking skills to technical issues, and solve problems in a small business environment.

Complete each course to be applied toward the certificate with a “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to:

- Demonstrate a general understanding of the nature of business.
- Apply critical thinking skills (analysis, synthesis, evaluation) to technical issues in a business environment.
- Recognize skills necessary to solve problems in a small business environment.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

- **BSAD C100** Introduction to Business........................... 3 Units
- **BSAD C101** Financial Accounting................................. 4
- **BSAD C110** Introduction to Personal Finance ......... 3
- **BSAD C125** Computerized Accounting Practice .......... 2
- **BSAD C131** Business Law ............................................... 3
- **BSAD C145** Business Communication ...................... 3
- **BSAD C171** Introduction to Marketing.......................... 3
- **BSAD C180** Entrepreneurship: Small Business Management .................................................. 3
- **BSAD C211** E-Commerce .................................................. 3
- **CSCI C101** Introduction to Computer Information Systems................................... 3

Complete one of the following general education patterns:

- **OPTION A** Cerro Coso Local General Education Pattern
- **OPTION B** CSU General Education Breadth
- **OPTION C** IGETC - Intersegmental General Education Transfer Curriculum

Disclosures

Gainful Employment information for this program may be found at [http://www.cerrocoso.edu/academic-programs/](http://www.cerrocoso.edu/academic-programs/).

Vocational Nursing Associate in Science Degree

Vocational Nursing Associate in Science Degree (60 units total, 45.5 units in the major): This course of study is an intensive program totaling 1,662 hours approved by the Board of Vocational Nursing and Psychiatric Technicians. The hours include anatomy and physiology, psychology, certified nurse aide (CNA), nursing theory, and supervised clinical nursing experiences. Concepts integrated throughout the first semester of the program include fundamentals of nursing, geriatrics, nutrition, and pharmacology. Nursing care of clients with various adult medical/surgical conditions is integrated throughout three semesters of the program. Course content also includes concepts of growth and development, normal obstetrics, and pediatrics. After successful completion of the program, the student is eligible to take the licensure examination provided by the National Council of State Board of Nursing (NCLEX-PN).

All prerequisites must be successfully completed with a grade of “C” or better before entering the program. Students must also possess a current CNA certificate.
For information regarding the process of application and admission in the program, interested students should contact the Counseling Center or the Director of Vocational Nursing Program.

This degree is not specifically designed for transfer. Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Identify the etiology, pathophysiology, and signs and symptoms of disorders of all body systems and stages of development.
- Demonstrate an understanding of the nursing process.
- Take a leadership role in both the profession of Vocational Nursing and in the community.
- Successfully pass the State Mandated NCLEX-PN Boards.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

**Semester I**

- HCRS C101 Vocational Nursing: Medical-Surgical Nursing 1 ................................. 8 Units
- HCRS C111 Vocational Nursing: Clinical Practice 1 ................................................. 6

**Semester II**

- HCRS C102 Vocational Nursing: Medical-Surgical Nursing 2 ................................. 8 Units
- HCRS C112 Vocational Nursing: Clinical Practice 2 ................................................. 6

**Semester III**

- HCRS C201 Vocational Nursing: Medical-Surgical Nursing 3 ................................. 8 Units
- HCRS C211 Vocational Nursing: Clinical Practice 3 ................................................. 6

Select 3 units from the following courses:

- HCRS C230 Pharmacology for the Health Professional ........................................ 3 Units
- HCRS C240 Nutrition and Diet Therapy for Health Professionals ......................... 3
- HCRS C250 Cultural Diversity and Health Care ...................................................... 3
- HCRS C255 Basic Cardiac Rhythm Interpretation .................................................. 3
- HCRS C260 Ethics for the Health Professional ......................................................... 3

Complete one of the following general education patterns:

- OPTION A Cerro Coso Local General Education Pattern
- OPTION B CSU General Education Breadth
- OPTION C IGETC - Intersegmental General Education Transfer Curriculum

Conditions of Enrollment
Vocational Nursing requires the completion of prerequisite courses for entrance into the program.

- BIOL C125 Survey of Anatomy and Physiology .................................................. 4 Units
  or BIOL C251 Human Anatomy .............................................................................. 4
  and BIOL C255 Human Physiology ...................................................................... 4
- CSCI C070 Computer Literacy ................................................................................ 1
- HCRS C055 Certified Nursing Assistant ................................................................ 3
- HCRS C150 Medical Terminology for the Health Professional ............................ 3
- PSYC C101 General Psychology .............................................................................. 3

All prerequisites must be successfully completed with a grade of “C” or better before entering the program. Students must also possess a current CNA certificate.

**Vocational Nursing Certificate of Achievement**

Vocational Nursing Certificate of Achievement (45.5 units): Any student completing the courses
required for the Vocational Nursing major qualifies for a certificate in Vocational Nursing.

All prerequisites must be successfully completed with a grade of “C” or better before entering the program. Students must also possess a current CNA certificate.

For information regarding the process of application and admission in the program, interested students should contact the Counseling Center or the Director of Vocational Nursing Program.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Identify the etiology, pathophysiology, and signs and symptoms of disorders of all body systems and stages of development.
- Demonstrate an understanding of the nursing process.
- Take a leadership role in both the profession of Vocational Nursing and in the community.
- Successfully pass the State Mandated NCLEX-PN Boards.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

**Semester I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCRS C101</td>
<td>Vocational Nursing: Medical-Surgical Nursing 1</td>
<td>8</td>
</tr>
<tr>
<td>HCRS C111</td>
<td>Vocational Nursing: Clinical Practice 1</td>
<td>6</td>
</tr>
<tr>
<td>HCRS C070</td>
<td>CPR for the Healthcare Provider</td>
<td>0.5</td>
</tr>
<tr>
<td>or EMTC C070</td>
<td>CPR for the Healthcare Provider</td>
<td>0.5</td>
</tr>
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</table>

**Semester II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCRS C102</td>
<td>Vocational Nursing: Medical-Surgical Nursing 2</td>
<td>8</td>
</tr>
<tr>
<td>HCRS C112</td>
<td>Vocational Nursing: Clinical Practice 2</td>
<td>6</td>
</tr>
</tbody>
</table>

**Semester III**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCRS C201</td>
<td>Vocational Nursing: Medical-Surgical Nursing 3</td>
<td>8</td>
</tr>
<tr>
<td>HCRS C211</td>
<td>Vocational Nursing: Clinical Practice 3</td>
<td>6</td>
</tr>
</tbody>
</table>

Select 3 units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCRS C230</td>
<td>Pharmacology for the Health Professional</td>
<td>3</td>
</tr>
<tr>
<td>HCRS C240</td>
<td>Nutrition and Diet Therapy for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HCRS C250</td>
<td>Cultural Diversity and Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HCRS C255</td>
<td>Basic Cardiac Rhythm Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>HCRS C260</td>
<td>Ethics for the Health Professional</td>
<td>3</td>
</tr>
</tbody>
</table>

**Conditions of Enrollment**
Vocational Nursing requires the completion of prerequisite courses for entrance into the program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL C125</td>
<td>Survey of Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL C251</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>and BIOL C255</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>CSCI C070</td>
<td>Computer Literacy</td>
<td>1</td>
</tr>
<tr>
<td>HCRS C055</td>
<td>Certified Nursing Assistant</td>
<td>5</td>
</tr>
<tr>
<td>HCRS C150</td>
<td>Medical Terminology for the Health Professional</td>
<td>3</td>
</tr>
<tr>
<td>PSYC C101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

All prerequisites must be successfully completed with a grade of “C” or better before entering the program. Students must also possess a current CNA certificate.

**Disclosures**
Gainful Employment information for this program may be found at [http://www.cerrocoso.edu/academic-programs/](http://www.cerrocoso.edu/academic-programs/).

**Web Design Associate in Science Degree**

The Web Design Associate in Science Degree (60 units total, 34 units in the major) is designed to prepare students for a career in the web industry by emphasizing creative problem solving, standards-based coding and scripting, visual design, usability, accessibility, technical communication, media production, and project management. The curriculum has the objective of developing technical and design skills, a combination of competencies that employers and clients value. Students develop realistic
expectations about work conditions through individual and collaborative work-based projects and by learning in the same technological environment in which they will eventually work.

This degree is not specifically designed for transfer. Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for a major at a four-year school. If you do plan to transfer, consult a counselor and visit http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

• Demonstrate technical and creative mastery of the creation of web media, such as graphics, motion graphics, and interactive media.

• Use valid markup, cascading style sheets, semantic encoding, accessibility compliance, and error-free scripting in the creation of web content.

• Apply design principles to solve visual communication problems.

• Demonstrate life-long learning skills in effective collaboration, leadership, written communication, management, and information search and retrieval.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMA C102</td>
<td>Digital Imaging with Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>DMA C111</td>
<td>Fundamentals of Web Development</td>
<td>3</td>
</tr>
<tr>
<td>or CSCI C181</td>
<td>Fundamentals of Web Development</td>
<td>3</td>
</tr>
<tr>
<td>DMA C113</td>
<td>Accessibility and Usability</td>
<td>3</td>
</tr>
<tr>
<td>DMA C115</td>
<td>Interactivity and Interface Design with Flash</td>
<td>4</td>
</tr>
<tr>
<td>DMA C117</td>
<td>Web Design with Dreamweaver</td>
<td>3</td>
</tr>
<tr>
<td>DMA C211</td>
<td>Web Scripting with JavaScript</td>
<td>3</td>
</tr>
<tr>
<td>DMA C280</td>
<td>Web Production Management</td>
<td>3</td>
</tr>
<tr>
<td>ENGL C151</td>
<td>Technical Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Select at least 9 units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART C111</td>
<td>Two Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART C121</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C211</td>
<td>E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C251</td>
<td>Introduction to Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C265</td>
<td>Introductory C++ Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C267</td>
<td>Introduction to Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>DMA C103</td>
<td>Digital Photo Enhancement with Photoshop</td>
<td>2</td>
</tr>
<tr>
<td>DMA C107</td>
<td>Illustration and Design with Illustrator</td>
<td>3</td>
</tr>
<tr>
<td>DMA C108</td>
<td>Advanced Digital Imaging and Illustration</td>
<td>3</td>
</tr>
<tr>
<td>DMA C109</td>
<td>Desktop Publishing with InDesign</td>
<td>3</td>
</tr>
<tr>
<td>DMA C121</td>
<td>Principles of Animation with Flash</td>
<td>3</td>
</tr>
<tr>
<td>DMA C130</td>
<td>Introduction to Podcasting</td>
<td>1.5</td>
</tr>
<tr>
<td>DMA C131</td>
<td>Digital Video Production</td>
<td>3</td>
</tr>
<tr>
<td>DMA C133</td>
<td>Motion Graphics with After Effects</td>
<td>3</td>
</tr>
<tr>
<td>DMA C135</td>
<td>Digital Cinematography</td>
<td>3</td>
</tr>
<tr>
<td>DMA C213</td>
<td>Web Development with PHP and MySQL</td>
<td>3</td>
</tr>
<tr>
<td>DMA C217</td>
<td>PHP Site Management and Theme Design</td>
<td>3</td>
</tr>
<tr>
<td>MUSC C183</td>
<td>Fundamentals of Sound Design for Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following general education patterns:

- OPTION A: Cerro Coso Local General Education Pattern
- OPTION B: CSU General Education Breadth
- OPTION C: IGETC - Intersegmental General Education Transfer Curriculum

Web Design Certificate of Achievement

The Web Design Certificate of Achievement (34 units) prepares students for a career in the web industry by emphasizing creative problem solving, standards-based coding and scripting, visual design, usability, accessibility, technical communication, media production, and project management. The curriculum has the objective of developing technical and design skills, a combination of competencies that employers and clients value. Students develop realistic expectations about work conditions through
individual and collaborative work-based projects and by learning in the same technological environment in which they will eventually work.

Students earn the Certificate in Web Design by completing 34 units, including 25 units of core courses and at least 9 units among the specified electives.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes

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

- Demonstrate technical and creative mastery of the creation of web media, such as graphics, motion graphics, and interactive media.
- Use valid markup, cascading style sheets, semantic encoding, accessibility compliance, and error-free scripting in the creation of web content.
- Apply design principles to solve visual communication problems.
- Demonstrate lifelong learning skills in effective collaboration, leadership, written communication, management, and information search and retrieval.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

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<td>3</td>
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<td>or CSCI C181</td>
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<td>MUSC C183</td>
<td>Fundamentals of Sound Design for Media</td>
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</table>

Disclosures

Gainful Employment information for this program may be found at http://www.cerrocoso.edu/academic-programs/.

Welding Technology Associate in Science Degree

The Welding Technology Associate in Science Degree (60 units total, 21 units in the major) trains students in multiple welding processes and is designed to prepare them for an entry-level welding position in diverse fields. Safe and clean work habits are practiced and personal protective equipment is required. Career areas in which welders work include: mining, manufacturing, marine welding, ship building, metal art sculpting, machine shops, construction, railroads, automotive, as well as the aircraft, aerospace and renewable energy industries.

This degree is not specifically designed for transfer. Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units,
including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

• Demonstrate competency in major welding processes used in industry.
• Apply welding processes and the use of hand tools and shop equipment to fabricate projects.
• Recognize and interpret technical drawings in the planning and fabrication of projects.
• Demonstrate appropriate workplace safety policies and procedures during welding and fabrication operations.
• Apply mathematical concepts to solve problems related to an industrial/technical environment.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

DRFT C108 Reading Technical Drawings .................... 3 Units
or INDT C108 Reading Technical Drawings .................... 3
MCTL C107 Basic Hand Tools ........................................... 2
MATH C056 Technical Math for Trades ......................... 4
WELD C101 Oxyacetylene Welding ............................... 3
WELD C102 Shielded Metal Arc Welding (SMAW) .......... 2
WELD C200 Gas Metal Arc Welding (GMAW) ............. 2
WELD C201 Welding Fabrication .................................... 3
WELD C203 Gas Tungsten Arc Welding (GTAW) ...... 2

Complete one of the following general education patterns:

OPTION A Cerro Coso Local General Education Pattern
OPTION B CSU General Education Breadth
OPTION C IGEC - Intersegmental General Education Transfer Curriculum

Welding Technology Certificate of Achievement

Welding Technology Certificate of Achievement (21 units): This course of study trains students in multiple welding processes and is designed to prepare them for an entry-level welding position in diverse fields. Safe and clean work habits are practiced and personal protective equipment is required. Any student completing the Courses required for the Welding Technology major qualifies for a certificate in Welding Technology.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

• Demonstrate competency in major welding processes used in industry.
• Apply welding processes and the use of hand tools and shop equipment to fabricate projects.
• Recognize and interpret technical drawings in the planning and fabrication of projects.
• Demonstrate appropriate workplace safety policies and procedures during welding and fabrication operations.
• Apply mathematical concepts to solve problems related to an industrial/technical environment.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

DRFT C108 Reading Technical Drawings .................... 3 Units
or INDT C108 Reading Technical Drawings .................... 3
MCTL C107 Basic Hand Tools ........................................... 2
MATH C056 Technical Math for Trades ......................... 4
WELD C101 Oxyacetylene Welding ............................... 3
WELD C102 Shielded Metal Arc Welding (SMAW) .......... 2
WELD C200 Gas Metal Arc Welding (GMAW) ............. 2
WELD C201 Welding Fabrication .................................... 3
WELD C203 Gas Tungsten Arc Welding (GTAW) ...... 2
Welding Processes Certificate of Achievement

Welding Processes Certificate of Achievement (12 units): This certificate provides a focus on the major welding and cutting processes for building or upgrading skills and is also a foundation for the two-year degree.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Demonstrate competency in major welding processes used in industry.
- Apply welding processes and the use of hand tools and shop equipment to fabricate projects.
- Accurately fabricate items from technical drawings using appropriate math skills.
- Apply and practice workplace safety policies and procedures while learning welding and related skills.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>WELD C101</td>
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<tr>
<td>WELD C102</td>
<td>Shielded Metal Arc Welding (SMAW)</td>
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<td>WELD C200</td>
<td>Gas Metal Arc Welding (GMAW)</td>
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<tr>
<td>WELD C201</td>
<td>Welding Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>WELD C203</td>
<td>Gas Tungsten Arc Welding (GTAW)</td>
<td>2</td>
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</table>
Cerro Coso Community College offers a comprehensive program of instruction for students who wish to transfer to four-year institutions, complete an Associate degree, train for specific occupations, or develop basic skills and knowledge.

The following section includes a description of courses which the Board of Trustees has authorized the college to offer.

**COURSE CODE INDEX**

**Course Numbers**
Courses are divided into the following major categories:

- **001-019** Zero-credit or Adult Education courses.
- **020-049** Courses which prepare students to enroll in degree-level courses and/or provide enrichment opportunities. These courses do not carry degree credit.
- **050-099** Associate-degree and certificate level. Baccalaureate transferability is subject to review by individual transfer institutions.
- **100-199** Associate-degree and certificate level courses that are generally baccalaureate transferable as freshman level. (Course-by-course designations of transferability are noted in course descriptions according to the key listed below.)
- **200-299** Associate-degree and certificate courses that are generally baccalaureate transferable as sophomore level.

**Course Level and Transfer Codes**

- **A** Applicable to all Associate degree and certificate programs.
- **UC** Baccalaureate transferable to the University of California
- **N** New course submitted to the University of California system for transfer acceptance; verified with the Counseling Center.
- **CSU** Baccalaureate transferable to the California State University system.
- **P** Preparatory courses which do not carry degree-level credit.
- **X** Zero-credit courses.

**Course Repeat Status Limits**

Courses are identified in the course description sections of the catalog as repeatable, with the number of times they may be repeated indicated:

- Repeat Status: Not repeatable
- Repeat Status: Limit 1 (course may be taken once and repeated 1 time for a limit of 2 total takes)
- Repeat Status: Limit 2 (course may be taken once and repeated 2 times for a limit of 3 total takes)
- Repeat Status: Limit 3 (course may be taken once and repeated 3 times for a limit of 4 total takes)
- Legally Mandated Training: (course may be taken unlimited times)
Administration Of Justice

ADMJ C060  A  3.00 Units
Special Topics in Administration of Justice
Repeat Status: Course may be taken unlimited times
These courses are designed to prepare students to attend California Peace Officer Standards and Training (POST) Basic Peace Officer Training Academy. This course does not fulfill core or elective requirements for certificates or degrees in Administration of Justice. 45 hours lecture/35 hours laboratory.

ADMJ C061  A  2.00 Units
Special Topics in Administration of Justice
Repeat Status: Course may be taken unlimited times
These courses are designed to update current peace officers training with current laws, procedures, and practices. This course does not fulfill core or elective requirements for a certificate or degree in the field of Administration of Justice. 18-40 hours lecture/54-80 hour laboratory.

ADMJ C062  A  1.00 Unit
Special Topics in Administration of Justice
Repeat Status: Course may be taken unlimited times
These courses are designed to update current peace officers training with current laws, procedures, and practices. This course does not fulfill core or elective requirements for a certificate or degree in the field of Administration of Justice. 0-24 hours lecture/0-54 hours laboratory.

ADMJ C063  A  0.50 Units
Special Topics in Administration of Justice
Repeat Status: Course may be taken unlimited times
These courses are designed to update current peace officers training with current laws, procedures, and practices. This course does not fulfill core or elective requirements for a certificate or degree in the field of Administration of Justice. 0-16 hours lecture/0-27 hours laboratory.

ADMJ C101  A/UC/CSU  3.00 Units
Introduction to Administration of Justice
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This is a comprehensive course on the Criminal Justice System that includes the history and philosophy of the Administration of Justice in America. The course will explore the development of the criminal justice system, including all sub-systems, interconnectivity of the sub-systems and their role expectations, theories on crime, adjudication, punishment, rehabilitation, education and training for the continued professionalism of the entire system. 54 hours lecture.

ADMJ C105  A/UC/CSU  3.00 Units
Concepts of Criminal Law
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
In this course students learn the historical development, philosophy, and constitutional provisions of the law and its impact within the criminal justice system. Students develop a working knowledge of legal terms and their definitions. Students look at the classification of crime and its causation. Students conduct analytical research and study of case law decisions. 54 hours lecture.

ADMJ C111  A/UC/CSU  3.00 Units
Principles and Procedures of the Justice System
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course will survey and study the role and responsibilities of each segment within the justice system; including, but not limited to, law enforcement, corrections and the judicial system. Legal processes including arrest through trial, sentencing and correctional procedures. Conceptual interpretations of law as reflected in court decisions and how they impact the justice system. 54 hours lecture.

ADMJ C115  A/CSU  3.00 Units
Legal Aspects of Evidence
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course is designed to provide a working knowledge of evidence, evidentiary practices and case laws that deal with the admission of evidence. Topics include origin, development and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizure, kinds and degrees of evidence and the rules that govern the admissibility; judicial decisions interpreting individual rights and case studies. 54 hours lecture.

ADMJ C121  A/UC/CSU  3.00 Units
Community Relations
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course studies the factors that create friction between community and the criminal justice agencies. Includes the roles of Administration of Justice practitioners and agencies interrelationships and role expectations among various agencies and the public. Principal emphasis is placed upon the professional image of the criminal justice system and
the development of the positive relationships between members of the criminal justice system and the public. 54 hours lecture.

**ADMJ C125**  A/CSU  3.00 Units

**Principles of Investigation**

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course will provide students with an introduction into the ethics and legalities of criminal investigations. Topics include: fundamentals of investigation; techniques of crime scene searches; and aspects in dealing with the public, specific knowledge necessary for handling crime scenes, interviews, evidence, surveillance, follow-up, technical resources and case preparation are also covered. 54 hours lecture.

**ADMJ C131**  A/CSU  3.00 Units

**Juvenile Procedures**

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This is a basic course in the sociological study of crime and its causes as it pertains to juvenile procedures and delinquency. Topics include organization, functions, and jurisdiction of juvenile agencies, processing and detention of juveniles; juvenile case disposition; juvenile status and court procedures. 54 hours lecture.

**ADMJ C142**  A/CSU  5.00 Units

**Basic Peace Officer Academy Module III**

Limitation on Enrollment: Must successfully pass a fingerprint check through the California Department of Justice and meet the entry requirements established by the California Commission on Peace Officer Standards and Training (POST) for this course.
Repeat Status: Course may be taken unlimited times

This course provides basic instruction designed to prepare students for the performance of limited peace officer duties. The curriculum is established through the requirements set by the California Commission on Peace Officer Standards and Training (P.O.S.T.), which include: introduction to law enforcement; administration of justice; criminal law; evidence; community-police relations; patrol procedures; juvenile procedures; defensive tactics; firearms; First Aid/CPR; vehicle operations; domestic violence and related topics. 45 hours lecture/135 hours laboratory.

**ADMJ C145**  A/CSU  20.00 Units

**Basic Peace Officer Training Academy**

Limitation on Enrollment: Prospective students will need to go through the selection process given by the course certification holder, the Kern County Sheriff’s Department.

Repeat Status: Course may be taken unlimited times

This course is designed to fulfill the training requirements established by the California Commission on Peace Officer Standards and Training (POST) for basic peace officer training. 90 hours lecture/810 hours laboratory.

**ADMJ C151**  A/CSU  3.00 Units

**Introduction to Corrections**

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course is to give students an overview of the role corrections plays within the criminal justice system. The course focus is on such topics as: incarceration; alternatives to incarceration; rehabilitation of inmates; juvenile offenders; and legal issues that influence the day-to-day operations of correctional institutions. 54 hours lecture.

**ADMJ C202**  A/N/CSU  11.50 Units

**Field Training Program**

Prerequisite: Completion of the State of California Peace Officer Training Academy
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

The Field Training Program (FTP) is designed to provide a training continuum which integrates the acquired knowledge and skills from the Regular Basic Peace Officer Academy with the practical application of law enforcement services. The FTP introduces a newly assigned officer to the personnel, procedures, policies and purposes of the individual law enforcement agency. The FTP integrates the initial formal and informal training specific to the agency and the day-to-day duties of officers. Student assignment to a patrol car, one-on-one with a certified Field Training Officer. The Field Training Programs emphasis shall be on both training and evaluation of trainees. 40 hours lecture/520 hours laboratory.

**ADMJ C211**  A/CSU  3.00 Units

**Concepts of Enforcement Services**

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course compares roles and expectations of law enforcement from an officer and citizen perspective; exploring the theories, philosophies, and concepts related to the role expectations of the law enforcement officer. The class places a major emphasis upon patrol, traffic, public service responsibilities, and their relationship to the justice system. 54 hours lecture.
ADMJ C215  A/CSU  3.00 Units
Patrol Procedures
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course includes a look into the historical development of the patrol philosophy. Issues of planning for field activities including the function of patrol, traffic enforcement, and other preliminary investigative duties of the field officer will be reviewed. The techniques for planning patrol activities, handling complaints and requests for service will be analyzed. The mechanics of in-field interviewing, person and property searches and arrests will be outlined. The course will cover issues relative to the handling of traffic related problems, civil and domestic disturbances and other community crime related incidents. 54 hours lecture.

ADMJ C230  A/CSU  4 Units
Forensic Crime Scene Investigation
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course enables students to attain a comprehensive understanding of the processes used to respond to, secure, document and collect evidence at a crime scene. The legal, ethical, and practical issues involving crime scene investigations are covered in great detail. The coursework includes identifying and working a crime scene in the field. 54 hours lecture/54 hours laboratory.

American Sign Language

ASL C100  A/UC/CSU  3.00 Units
Deaf History
Repeat Status: Not repeatable
This course is about studying American Deaf culture; its historical and cultural characteristics, values, and dynamics; its psychological and social impacts upon the lives of Deaf people; Deaf education; and mod-ern-day perspectives. The focus is on the cultural diversity of the Deaf community within the context of personal and social development, and how this culture has been influenced by forces such as population, resources, social organization, technology, and ideology. 54 hours lecture.

ASL C101  A/UC/CSU  4.00 Units
Intermediate American Sign Language I
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course is an introduction to American Sign Language (ASL), a visual-gesture language used by the deaf community in the United States and Canada, and more importantly, focuses on the development of basic conversation skills emphasizing the culture and history of ASL through in-class and out-of-class requirements. 72 hours lecture.

ASL C102  A/UC/CSU  4.00 Units
American Sign Language II
Prerequisite: ASL C101
Repeat Status: Not repeatable
Students continue to develop and enhance their proficiency in American Sign Language (ASL) usage and knowledge of deaf history and culture. This course encourages students’ communicative competency with emphasis on vocabulary and expressive skills through in-class and out-of-class requirements. 72 hours lecture.

ASL C201  A/UC/CSU  4.00 Units
Intermediate American Sign Language I
Prerequisite: ASL C102
Repeat Status: Not repeatable
This course is designed for students to acquire communicative competency in ASL. The course promotes the shifting from comprehension to production of ASL. With expanded vocabularies and grammatical pat-terns being exposed, the students continue to develop their ASL competencies in numerous conversational settings. The main emphasis is to bring the student’s ASL fluency to a point of self-generated ASL for the purpose of furthering language use in ASL. Deaf culture and Deaf community are studied as it relates to the course. 72 hours lecture.

ASL C202  A/UC/CSU  4.00 Units
Intermediate American Sign Language II
Prerequisite: ASL C201
Repeat Status: Not repeatable
This course develops the expressive and receptive communication skills acquired in ASL C201. Students demonstrate competency and an advanced understanding of non-manual behaviors, topic-comment structure, sentence types, time, pronominalization, classifiers, pluralization, temporal aspects, locatives, subjects and objects, and distributional aspects. 72 hours lecture.

Anthropology

ANTH C111  A/UC/CSU  3.00 Units
Cultural Anthropology
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course analyzes social and cultural factors of human behavior in the recent past and present. Students
compare and contrast cultural traditions, practices and beliefs, and discuss the associated environmental and social factors that shape human cultures. 54 hours lecture.

**ANTH C121**  
**A/UC/CSU**  
**3.00 Units**  
**Physical Anthropology**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course examines humans as biological organisms from an evolutionary perspective. Areas covered include concepts, methods, findings, and issues in the study of the order primates, including relationships between fossil monkeys, apes and humans, and the significance of genetic diversity among modern populations. 54 hours lecture.

**ANTH C131**  
**A/UC/CSU**  
**3.00 Units**  
**Archaeology**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course introduces archaeology as a subfield of anthropology that studies humanity’s prehistory, history and present through the study of material remains and the archaeological record of human development from our origins to modern times. 54 hours lecture.

**Art**

**ART C101**  
**A/UC/CSU**  
**3.00 Units**  
**Introduction to Art**

Advisory: CSCI C070, Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

Introduction to Art provides the student with a general overview of art history, develops skills in the critical evaluation of art, and encourages the development of personal aesthetics. In addition, the student is given studio art experiences dealing with various studio media in order to reinforce the concepts presented. 27 hours lecture/81 hours laboratory.

**ART C105**  
**A/UC/CSU**  
**3.00 Units**  
**History of Western Art I**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

Historical development of art and architecture from the Paleolithic Period to the end of the Middle Ages. Field trips required. 54 hours lecture.

**ART C106**  
**A/UC/CSU**  
**3.00 Units**  
**History of Western Art II**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

Historical development of painting, sculpture and architecture from Giotto (1300) to the present. This course focuses on the important contributions of Western art upon the world scene. Field trips optional. 54 hours lecture.

**ART C106H**  
**A/UC/CSU**  
**4.00 Units**  
**History of Western Art II – Honors**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

Historical development of painting, sculpture, architecture, and other art forms from the renaissance to the present. Special emphasis on the impressionist and post-impressionist periods, focusing on the revolutionary innovations in art that focused on time and space. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

**ART C111**  
**A/UC/CSU**  
**3.00 Units**  
**Two Dimensional Design**

Repeat Status: Not repeatable

This is a beginning level studio class which introduces a fundamental understanding and usage of the elements and principles of two dimensional design theory and color theory as they relate to the composition of two dimensional images. 27 hours lecture/81 hours laboratory.

**ART C115**  
**A/UC/CSU**  
**3.00 Units**  
**3-Dimensional Design**

Repeat Status: Not repeatable

Use of individual design elements related to the study of three-dimensional composition. 27 hours lecture/81 hours laboratory.

**ART C121**  
**A/UC/CSU**  
**3.00 Units**  
**Drawing I**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Limit 3

This is an introductory studio course in representational and experimental drawing with a focus on historical and contemporary drawing styles, concepts, and drawing materials. This class helps the student develop an understanding of the use of black and white drawing media. Students develop perceptual skills that enable them to draw from direct observation and for personal artistic expression. 27 hours lecture/81 hours laboratory.

**ART C131**  
**A/UC/CSU**  
**3.00 Units**  
**Painting I**

Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

This course is a beginning level studio course which introduces the materials, methods, and techniques of painting as a means of creating two dimensional art images. 27 hours lecture/81 hours laboratory.

**ART C141**  A/UC/CSU  3.00 Units

*Ceramics I*

Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

This is a beginning level studio course which introduces the student to ceramic materials and the methods of processing ceramic materials into finished projects. Instruction is directed toward both art and craft, traditional and contemporary. 27 hours lecture/81 hours laboratory.

**ART C151**  A/UC/CSU  3.00 Units

*Sculpture I*

Advisory: Reading Level 1, Writing Level 2
Repeat Status: Limit 3

This course is an introduction to sculptural concepts, processes and techniques. Modern materials and their relationship to design, form, and three-dimensional space is investigated. Students develop perceptual skills that enable them to create sculptures for personal artistic expression. 27 hours lecture/81 hours laboratory.

**ART C165**  A/UC/CSU  3.00 Units

*Photography I*

Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

This course provides an introduction to the technical and aesthetics aspects of photography in a fine arts context. Special attention is given to the relationships between photography, other art forms and culture. Students learn to operate a camera, develop film and print black and white photographs. 27 hours lecture/81 hours laboratory.

**ART C221**  A/UC/CSU  3.00 Units

*Drawing III*

Prerequisite: ART C121
Repeat Status: Limit 3

This is an advanced studio course in representational and experimental drawing with a focus on historical and contemporary drawing styles, concepts, and drawing materials. This class helps the student develop an advanced understanding of the use of black and white drawing media. Students expand perceptual skills that enable them to draw from direct observation and for personal artistic expression. 27 hours lecture/81 hours laboratory.

**ART C231**  A/UC/CSU  3.00 Units

*Painting II*

Prerequisite: ART C131
Repeat Status: Not repeatable

This course provides students opportunities for advanced projects in painting. 27 hours lecture/81 hours laboratory.

**ART C240**  A/N/CSU  3.00 Units

*Ceramics II*

Prerequisite: ART C141
Repeat Status: Not repeatable

This course provides an opportunity for advanced work in basic ceramic techniques, glaze and clay formulation, and kiln firing. 27 hours lecture/81 hours laboratory.

**ART C265**  A/CSU  3.00 Units

*Photography II*

Prerequisite: ART C165
Repeat Status: Limit 3

A continuation of study in the aesthetics and technology of black and white photography in a fine arts context. Students refine black and white darkroom techniques and learn advanced printing techniques. 27 hours lecture/81 hours laboratory.

**Automotive Technology**

**AUTO C111**  A/CSU  5.50 Units

*Engine Performance*

Advisory: Reading Level 1, Writing Level 2
Repeat Status: Course may be taken unlimited times

This course presents the principles and theory underlying the design, construction and operation of the automobile’s fuel system and related components, and emission control fundamentals. 27 hours lecture/216 hours laboratory.

**AUTO C115**  A/CSU  5.50 Units

*Electrical Systems*

Advisory: Reading Level 2, Writing Level 2
Repeat Status: Course may be taken unlimited times

This course presents the principles and theories underlying the design, construction and operation of the automobile’s electrical systems. Students learn to diagnose, test, adjust and repair electrical system components. This course prepares students for Automotive Service Excellence (ASE) testing in electrical systems. 45 hours lecture/162 hours laboratory.
**AUTO C121**  A/CSU  3.00 Units  
**Brakes**
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Course may be taken unlimited times  
This course presents the principles and theories underlying the design, construction, function and operation of the automotive brake system. This course prepares students for ASE testing in brake systems. 18 hours lecture/108 hours laboratory.

**AUTO C125**  A/CSU  3.00 Units  
**Automotive Suspension and Steering**
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Course may be taken unlimited times  
This course presents the principles and theory underlying the diagnosis, repair and maintenance of the suspension system, including wheel bearings, tires and shocks. 18 hours lecture/108 hours laboratory.

**AUTO C131**  A/CSU  3.00 Units  
**Air Conditioning and Heating Systems**
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Course may be taken unlimited times  
This course provides practical experience in the diagnosis, repair, adjustment and maintenance of automotive comfort and ventilating systems. 36 hours lecture/54 hours laboratory.

**AUTO C135**  A/CSU  3.00 Units  
**Auto Transmission and Transaxle Systems**
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Course may be taken unlimited times  
This course focuses on the development of skills in removing and replacing, repairing, adjusting and servicing drive train components in automatic transmissions. 18 hours lecture/108 hours laboratory.

**AUTO C141**  A/CSU  3.00 Units  
**Manual Drive Train and Axles**
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Course may be taken unlimited times  
This course focuses on the development of skills in removing and replacing, repairing, adjusting and servicing drive train components including clutches, manual transmissions and linkage, universal joints, drive line bearings and differentials. 27 hours lecture/81 hours laboratory.

**AUTO C145**  A/CSU  3.00 Units  
**Engine Repair**
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Course may be taken unlimited times  
This course focuses on the development of the skills and knowledge required to remove, rebuild, and replace an engine back to its original condition. 18 hours lecture/108 hours laboratory.

**AUTO C151**  A/CSU  3.00 Units  
**Hybrid and Alternative Fuels**
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
This course is an introduction to fundamentals of hybrid and alternative fuel vehicles and their role in today’s carbon based society. The difference between AC/DC motors versus gasoline engines will be explored. Unique safety and service procedures for hybrid vehicles is also emphasized. 36 hours lecture/54 hours laboratory.

**Biology**

**BIOL C101**  A/UC/CSU  3.00 Units  
**Principles of Biology**
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course provides a biological survey for non-majors. Topics cover principles of organization, cell structure and function, metabolism, genetics, organ systems of plants and animals, ecology, evolution, and biodiversity. 54 hours lecture.

**BIOL C101H**  A/UC/CSU  4.00 Units  
**Principles of Biology – Honors**
Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.  
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course provides a biological survey for non-majors. Topics cover principles of organization, cell structure and function, metabolism, genetics, organ systems of plants and animals, ecology, evolution, and biodiversity. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

**BIOL C105**  A/UC/CSU  4.00 Units  
**Concepts of Biology**
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This is an introductory course in biological science with laboratory experience for non-majors. The course illustrates the principles of organization, cell structure and function, genetics, metabolism, organ systems, and reproduction (plant and animal), ecology, evolution,
and animal behavior. The course is not open to students with credit in BIOL C101. 54 hours lecture/54 hours laboratory.

**BIOL C105H**  A/UC/CSU  5.00 Units  
*Concepts of Biology – Honors*

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This is an introductory course in biological science with laboratory experience for non-majors. The course illustrates the principles of organization, cell structure and function, genetics, metabolism, organ systems, and reproduction (plant and animal), ecology, evolution, and animal behavior. The course is not open to students with credit in Biology C101. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture/54 hours laboratory.

**BIOL C111**  A/UC/CSU  5.00 Units  
*General Biology I*

Prerequisite: MATH C055  
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This is an introductory course for students majoring in biological sciences and related subjects. The course covers: principles of cell biology, metabolism, biochemistry, molecular biology, genetics, and physiology. 72 hours lecture/54 hours laboratory.

**BIOL C111H**  A/UC/CSU  6.00 Units  
*General Biology I – Honors*

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This is an introductory course for students majoring in biological sciences and related subjects. The course covers: principles of cell biology, metabolism, biochemistry, molecular biology, genetics, and physiology. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 90 hours lecture/54 hours laboratory.

**BIOL C112**  A/UC/CSU  5.00 Units  
*General Biology II*

Prerequisite: MATH C055  
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This is an introductory course for students majoring in biological sciences and related subjects. The course covers Evolutionary Biology, Phylogenetics and Biodiversity, Anatomy and Physiology of Plants, and Ecology. 72 hours lecture/54 hours laboratory.

**BIOL C112H**  A/UC/CSU  6.00 Units  
*General Biology II – Honors*

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Prerequisite: MATH C055  
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This is an introductory course for students majoring in biological sciences and related subjects. The course covers Evolutionary Biology, Phylogenetics and Biodiversity, Anatomy and Physiology of Plants, and Ecology. The Honors Section will also cover a subset of these topics in greater depth beyond the scope of BIOL C112. 90 hours lecture/54 hours laboratory.

**BIOL C121**  A/UC/CSU  3.00 Units  
*Survey of Anatomy and Physiology Lecture*

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course is an introductory anatomy and physiology course for students in health career programs. Emphasis is on the structure and function of human cells, tissues, organs, and organ systems. Human development and heredity are also covered. Not open to students who have completed BIOL C125. 54 hours lecture.

**BIOL C122**  A/UC/CSU  1.00 Unit  
*Survey of Anatomy and Physiology Laboratory*

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course is the laboratory component of an introductory anatomy and physiology course designed for students in health career programs. Emphasis is on the structure and function of human cells, tissues, organs, and organ systems. Human development and heredity are also covered. 54 hours laboratory.

**BIOL C125**  A/N/CSU  4.00 Units  
*Survey of Anatomy and Physiology*

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course is an introductory anatomy and physiology course for students in health career programs. Emphasis is on the structure and function of human cells, tissues, organs, and organ systems. Human development and
heredity are also covered. Laboratory will give hands-on time to learn anatomical structures and perform physiological exercises. Not open to students who has completed BIOL C121. 54 hours lecture/54 hours laboratory.

**BIOL C141**  A/UC/CSU  3.00 Units
Environmental Studies Lecture

Prerequisite: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course explores environmental science with a focus on the scientific method. It explores human interactions with the environment and their consequences for living and nonliving systems. Topics include ecologic principles, environmental resources and ways of protecting these resources. Critical evaluation of environmental issues and problems is a focus of this course. Not open to students who have completed BIOL C145. 54 hours lecture.

**BIOL C142**  A/UC/CSU  1.00 Unit
Environmental Studies Laboratory

Co-requisite: BIOL C141
Repeat Status: Not repeatable

This course is a hands-on introduction to environmental science as a branch of the sciences including the scientific method and its relation to the field of science. It focuses on experimental design, sampling methods, data gathering and analysis in the context of the environmental sciences. Lab, field and computer tools will be used to study concepts such as natural selection, human population growth, climate change, and biodiversity. Critical evaluation of environmental issues, problems and policy is a focus of this course. Field trips required. 54 hours laboratory.

**BIOL C145**  A/UC/CSU  4.00 Units
Environmental Studies

Prerequisite: Level 1 Reading, Level 1 Writing
Repeat Status: Not repeatable

This course explores environmental science with a focus on the scientific method. It explores human interactions with the environment and their consequences for living and nonliving systems. Topics include ecologic principles, environmental resources and ways of protecting these resources. Critical evaluation of environmental issues and problems is a focus of this course. Lab, field and computer tools will be used to study the scientific method, experimental design, sampling methods, data gathering and analysis for hands-on experience of environmental sciences. Not open to students who have completed BIOL C141. Field trips required. 54 hours lecture/54 hours laboratory.

**Business Administration**

**BSAD C070**  A  3.00 Units
Business Mathematics

Advisory: Math Level 3
Repeat Status: Not repeatable

This course provides practice with a wide range of mathematical procedures used in various business applications. Students perform calculations both manually and using a calculator to solve problems in accounting, retail, finance and taxation. Learners will require access to a printing calculator with features including: round off/up key, decimal selector for 0 through 6 plus float, memory keys and 10-12 digit keyboard. 54 hours lecture.
**BSAD C072**  A  3.00 Units

*Introduction to Accounting*

Advisory: BSAD C070, Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

This course covers basic accounting concepts and procedures required to complete an accounting cycle. Account types, (assets, liabilities, equity, revenue, expenses) as well as procedures for bank reconciliation, petty cash, and payroll are introduced. Learners complete business transactions from day-to-day record keeping to closing entries and preparation of year end documents balance sheet, income statement, and statement of owner’s equity for a sample merchandising business. 36 hours lecture, 54 hour laboratory.

**BSAD C100**  A/CSU  3.00 Units

*Introduction to Business*

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This is a survey course introducing the nature and scope of business. Fields of business that will be introduced include management, operations, ethics, human resources, marketing, information systems and accounting. This course is recommended as the first business course for all business majors. 54 hours lecture.

**BSAD C101**  A/UC/CSU  4.00 Units

*Financial Accounting*

Advisory: BSAD C072, Math Level 3
Repeat Status: Not repeatable

This course introduces transaction analysis and reporting accounting information. Students examine accounting theory and the procedures of the accounting cycle. Emphasis is on preparing financial statements and interpreting results. 72 hours lecture.

**BSAD C102**  A/UC/CSU  4.00 Units

*Managerial Accounting*

Prerequisite: BSAD C101
Repeat Status: Not repeatable

This course focuses on analyzing and reporting accounting data for use in management planning, control and decision-making. Students examine cost systems, manufacturing systems, budgeting, and financial statement preparation and analysis. 72 hours lecture.

**BSAD C110**  A/CSU  3.00 Units

*Introduction to Personal Finance*

Advisory: Reading Level 1, Writing Level 1, Math Level 2
Repeat Status: Not repeatable

This course introduces students to the principles of personal financial management. Topics include budgeting, career decisions, tax structure, consumer credit, insurance and retirement, purchasing decisions, savings, and investment. 54 hours lecture.

**BSAD C131**  A/UC/CSU  3.00 Units

*Business Law*

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course introduces students to the legal environment of business and the American legal system. Students examine contracts in depth and agency law. The course includes a study of the governmental regulation of business and the relationship between administrative/legislative (state and federal) law, and business ethics. 54 hours lecture.

**BSAD C141**  A/CSU  3.00 Units

*Human Relations in Business*

Advisory: BSAD C100, Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

Using a behavioral science approach, students gain an understanding of human relations in the business environment. Emphasis is placed on elements of job applications and job advancement, motivation, people-to-people relationships, effective communication, and techniques of leadership on the job. Case studies, experiential exercises, and projects are used to assist the students in understanding the material. 54 hours lecture.

**BSAD C145**  A/CSU  3.00 Units

*Business Communication*

Advisory: CSCI C121; Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course presents the principles and techniques of effective written and oral business communications. Students will discuss, critique, and practice business-writing strategies to produce messages, letters, reports, and presentations, while developing critical thinking skills. Business communication in a global environment is also emphasized. 54 hours lecture.

**BSAD C152**  A/CSU  3.00 Units

*Managing Diversity in the Workplace*

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course is a survey of the processes involved in creating a workplace environment which is free of bias related to cultural background, gender, lifestyle or other legally relevant classification. Topics include identifying a personal comfort level, skill building in dealing with diversity issues, and the role of diversity in organizational culture. Case studies, exercises for developing competency, and projects are used to
assist the students in understanding the material and in developing managerial skills. Meets graduation requirements for diversity education. 54 hours lecture.

**BSAD C155**  A/CSU  3.00 Units  
**Human Resource Management**

Advisory: Reading Level 1, Writing Level 1, Math Level 2  
Repeat Status: Not repeatable  
This course introduces the principles and methods related to the effective use of human resources in organizations. Students gain an understanding of human resources involved in recruitment, selection, and placement of employees with regards to training, experience, and abilities. Topics of total compensation, employee-management relations, and global human resources management are also covered. 54 hours lecture.

**BSAD C171**  A/CSU  3.00 Units  
**Introduction to Marketing**

Advisory: Reading Level 1, Writing Level 1, Math Level 2  
Repeat Status: Not repeatable  
This course introduces the nature and scope of the marketing activity as demonstrated by an integrated, analytic, and practical study of marketing problems. Topics include: how to distribute and sell a product or idea; consumer behavioral patterns; strategy, planning, forecasting, and evaluation of the marketing process. 54 hours lecture.

**BSAD C180**  A/CSU  3.00 Units  
**Entrepreneurship: Small Business Management**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course introduces the principles of planning and managing a small business enterprise. Students examine the characteristics of the entrepreneur and the process of creating and operating a new business venture. The course includes the development of a business plan and examine the small business aspects of financing, marketing, and organizing, record keeping, legalities, personnel and government assistance. 54 hours lecture.

**BSAD C211**  A/CSU  3.00 Units  
**E-Commerce**

Advisory: BSAD C100, CSCI C101  
Repeat Status: Not repeatable  
This course provides students with a foundation in business and marketing principles as applied to eCommerce and examines numerous models for advertising and selling products, media, and services. Topics include business-to-business, business-to-consumer, eLearning, and mobile computing applications and support services. Marketing strategies, including search engine optimization and emerging digital media and mobile advertising campaigns are also examined. 54 hours lecture.

**BSAD C212**  A/CSU  3.00 Units  
**International Business**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course provides a comprehensive overview of international business, including a global perspective of international trade, foreign investments, financial markets, international marketing, and the operation of multi-national corporations. 54 hours lecture.

**BSAD C220**  A/CSU  3.00 Units  
**Principles of Project Management**

Advisory: BSAD C100, CSCI C101, Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course introduces students to the principles of project management. Topics include project management theory and project initiation, planning, and implementation. Additionally, techniques for selection, monitoring, and controlling are introduced. Students make extensive use of project management software to track resources, tasks, and milestones. 54 hours lecture.

**BSAD C222**  A/CSU  3.00 Units  
**Problem Solving and Computer Applications in Management**

Advisory: BSAD 100, CSCI 101, Reading Level 1, Writing Level 1, Math Level 2  
Repeat Status: Not repeatable  
This course uses computer applications and critical thinking skills to solve real-world business problems. Students integrate the use of word processing, spreadsheet, database, presentation, add-in software, and Internet resources to manage data to solve problems. Emphasis is placed on the use of software tools and analysis and modeling techniques to manage and manipulate data sources for decision making. The course assumes prior successful experience with and knowledge of individual Microsoft Office computer applications programs. 54 hours lecture.

**BSAD C251**  A/CSU  3.00 Units  
**Principles of Management and Organization**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course covers the formal organization, its environment and structure. Elements of planning, decision making, organizing, staffing, leading,
controlling, and evaluating are covered. Case studies, competency (experiential) exercises, and projects are used to develop managerial skills. This course is a “capstone” for business career students. 54 hours lecture.

**Business Office Technology**

**BSOT C100** A/CSU  3.00 Units  
*Introduction to Business Office Technology*

Advisory: CSCI C070, Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course provides the learner with a survey of skills and topics covered in the Business Office Technology Program certificates and degree. Business English, an orientation to industry standard office software, entry level office procedures, and office ethics are covered. Potential completers of the Business Office Technology certificates and degree are introduced to skills and topics relevant to success as an office clerk, administrative assistant, or office manager. 54 hours lecture.

**BSOT C127** A/CSU  1.00 Unit  
*Microsoft PowerPoint*

Advisory: CSCI C070 or CSCI C101 and CSCI C121  
Repeat Status: Not repeatable

This is a hands-on microcomputer course designed to provide basic understanding of Microsoft PowerPoint. Topics to be covered include planning, creating, editing, viewing, and printing. This course prepares the student to take the core level Microsoft PowerPoint Office Users Specialist certification exam. 9 hours lecture/27 hours laboratory.

**BSOT C131** A/CSU  1.00 Unit  
*Basic Computer Keyboarding*

Co-requisite: CSCI C070  
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

Learners are introduced to a computer keyboard with an emphasis on skill-building correct touch typing techniques for alphanumeric, symbolic, and punctuation keys. A foundation for keyboarding speed and accuracy is developed. 9 hours lecture/27 hours laboratory.

**BSOT C132** A/CSU  1.00 Unit  
*Intermediate Computer Keyboarding*

Advisory: BSOT C131  
Repeat Status: Not repeatable

Learners in this course build on a basic keyboarding foundation with correct touch typing techniques, including alphabetic, numeric, and symbol keyboarding as well as 10-Key numeric keypad. Skill-building includes introductory formatting of documents. Successful completion of this class will result in minimum keyboarding speed of 30 wpm net. 9 hours lecture/27 hours laboratory.

**BSOT C133** A/CSU  1.00 Unit  
*Advanced Computer Keyboarding*

Advisory: BSOT C132  
Repeat Status: Not repeatable

Learners in this course build on an intermediate keyboarding foundation with correct touch typing techniques, including alphabetic, numeric, and symbol keyboarding as well as 10-Key numeric keypad. Skill-building includes formatting of documents and individualized remedial drills. Successful completion of this class will result in minimum keyboarding speed of 45 wpm net. 9 hours lecture/27 hours laboratory.

**BSOT C154** A/CSU  3.00 Unit  
*Office Personnel Seminar*

Advisory: BSAD C145, CSCI C151  
Repeat Status: Not repeatable

Capstone course designed to integrate and refine office skills. Students gain skills in communication, information processing, time management, ethics, records management, administrative procedures, customer service, and job search. The workplace of today as well as team work, problem solving, and decision-making skills will be emphasized. 54 hours lecture.

**Chemistry**

**CHEM C101** A/UC/CSU  4.00 Units  
*Introduction to Chemistry*

Prerequisite: MATH C055  
Repeat Status: Not repeatable

This course covers measurement and units in chemistry, properties of matter, the structure of the atom, inorganic compounds, the periodic table, calculations from balanced chemical equations, basic chemical bonding, the ideal gas law and properties of water and other liquids. 54 hours lecture/54 hours laboratory.

**CHEM C111** A/UC/CSU  5.00 Units  
*General Inorganic Chemistry I*

Prerequisite: MATH C055  
Repeat Status: Not repeatable

This course covers matter and measurement, atoms, molecules, ions, calculations with chemical formulas and equations, aqueous reactions and solution stoichiometry, thermochemistry, the electronic
structure of atoms, periodic properties of the elements, concepts of chemical bonding, molecular geometry and bonding theories, the gaseous state, intermolecular forces in solids and liquids, modern materials, and properties of solutions. 72 hours lecture/54 hours laboratory.

CHEM C113  A/UC/CSU  5.00 Units
General Inorganic Chemistry II
Prerequisite: CHEM C111
Repeat Status: Not repeatable
This course covers modern materials, properties of solutions, kinetics, chemical and aqueous equilibrium, acids and bases, environmental chemistry, thermodynamics, electro-chemistry, nuclear chemistry, metallurgy, chemical trends in the periodic chart, coordination compounds, and bioorganic chemistry. 72 hours lecture/54 hours laboratory.

CHEM C113H  A/UC/CSU  6.00 Units
General Inorganic Chemistry II – Honors
Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Prerequisite: CHEM C111
Repeat Status: Not repeatable
This course covers modern materials, properties of solutions, kinetics, chemical and aqueous equilibrium, acids and bases, environmental chemistry, thermodynamics, electro-chemistry, nuclear chemistry, metallurgy, chemical trends in the periodic chart, coordination compounds, and bioorganic chemistry. The honors course provides more content in the form of advanced topics in chemistry and requires greater intensity and depth of study above and beyond that of the non-honors class. 90 hours lecture/54 hours laboratory.

CHEM C221  A/UC/CSU  5.00 Units
Organic Chemistry I
Prerequisite: CHEM C111
Repeat Status: Not repeatable
This course covers structure and bonding, polar bonds, alkanes, cycloalkanes, stereochemistry, synthesis, structure and reactivity of alkenes, synthesis, structure and reactivity of alkynes, handedness in chemistry, synthesis, structure and reactivity of alkyl halides, carbocations, the concept of resonance, nucleophilic substitutions and eliminations, basic biochemistry, mass spectrometry, infrared, nuclear magnetic resonance and ultraviolet spectroscopy and aromaticity. This Organic Chemistry for Majors I course is taught according to standards developed by the American Chemical Society. 72 hours lecture/54 hours laboratory.

CHEM C223  A/UC/CSU  5.00 Units
Organic Chemistry II
Prerequisite: CHEM C221
Repeat Status: Not repeatable
This course covers the chemistry of aromatic compounds, alcohols, thioles, ethers, epoxides and sulfides, aldehydes, ketones, carboxylic acid and carboxylic acid derivatives, amino acids, proteins, amines, phenols, carbohydrates, lipids, heterocycles, polymers and biological systems. Pericyclic carbonyl condensation, alpha substitution and other reaction mechanisms are also covered. This course is designed for students who will major in Chemistry, Chemical Engineering or related field. 72 hours lecture/54 hours laboratory.

CHEM C223H  A/UC/CSU  6.00 Units
Organic Chemistry II – Honors
Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Prerequisite: CHEM C221
Repeat Status: Not repeatable
This course covers the chemistry of aromatic compounds, alcohols, thioles, ethers, epoxides and sulfides, aldehydes, ketones, carboxylic acid and carboxylic acid derivatives, amino acids, proteins, amines, phenols, carbohydrates, lipids, heterocycles, polymers, biological systems. Pericyclic, carbonyl condensation, alpha substitution and other reaction mechanisms are also covered. This course is designed for students who will major in Chemistry, Chemical Engineering or related field. The honors course provides more content and requires greater intensity and depth of study than the non-honors Organic Chemistry class. 90 hours lecture/54 hours laboratory.

Child Development

CHDV C080  A  1.00 Unit
Child Development Conference
Repeat Status: Course may be taken unlimited times
This course allows those who are interested or currently working in the field of Child Development to gain professional growth experience in accordance with the Permit Matrix. Students will have the opportunity to travel to county, state, and national conferences to learn more about topics related to infant/toddler, preschool, and school-age programs. Certificates of completion for Professional Growth will be available. 18 hours lecture.
CHDV C081  A  1.00 Unit
Special Topics in Child Development
Repeat Status: Course may be taken unlimited times
This course allows those who are interested or currently working in the field of Child Development to gain professional growth experience in accordance with the Permit Matrix. A series of seminars and workshops are designed each semester to introduce those who are new to the field as well as to rejuvenate those who are experienced in the field. Current local, state, and national issues will be covered. Certificates of completion for Professional Growth will be available. 18 hours lecture.

CHDV C082  A  2.00 Units
Special Topics in Child Development
Repeat Status: Course may be taken unlimited times
This course allows those who are interested or currently working in the field of Child Development to gain professional growth experience in accordance with the Permit Matrix. A series of seminars and workshops are designed each semester to introduce those who are new to the field as well as to rejuvenate those who are experienced in the field. Current local, state, and national issues will be covered. Certificates of completion for Professional Growth will be available. 36 hours lecture.

CHDV C083  A  3.00 Units
Special Topics in Child Development
Repeat Status: Course may be taken unlimited times
This course allows those who are interested or currently working in the field of Child Development to gain professional growth experience in accordance with the Permit Matrix. A series of seminars and workshops are designed each semester to introduce those who are new to the field as well as to rejuvenate those who are experienced in the field. Current local, state, and national issues will be covered. Certificates of completion for Professional Growth will be available. 54 hours lecture.

CHDV C084  A  0.50 Units
Special Topics in Child Development
Repeat Status: Course may be taken unlimited times
This course allows those who are interested or currently working in the field of Child Development to gain professional growth experience in accordance with the Permit Matrix. A series of seminars and workshops are designed each semester to introduce those who are new to the field as well as to rejuvenate those who are experienced in the field. Current local, state, and national issues will be covered. Certificates of completion for Professional Growth will be available. 9 hours lecture.

CHDV C100  A/CSU  3.00 Units
Principles and Practices of Teaching
Prerequisite: Reading Level 1
Advisory: Writing Level 1
Repeat Status: Not repeatable
This course provides 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. 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. Students are required to observe children in a group setting. 54 hours lecture.

CHDV C102  A/CSU  3.00 Units
Introduction to Materials and Curriculum
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6. Students will examine a teacher’s role in supporting development and fostering the joy of learning for all young children using observation and assessment strategies emphasizing the essential role of play. An overview of content areas includes but is not limited to: language and literacy, social and emotional learning, sensory learning, art and creativity, math and science. Students are required to observe children in a group setting. 54 hours lecture.

CHDV C104  A/UC/CSU  3.00 Units
Child, Family and Community
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course examines the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development are highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. Students are required to observe children in a group setting. 54 hours lecture.

CHDV C105  A/CSU  3.00 Units
Introduction to Infant Development
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
Students are introduced to care and education for infants and toddlers. Topics include curriculum,
observation, the Pikler Approach, the Gerber philosophy, planning for attachment, special needs, sensory integration, communication, nutrition, and sanitation. Students prepare to understand, respect, and support healthy identity development in infants and toddlers including emphasis on diversity and individuality. Students are encouraged to contemplate their roles in shaping the identity formation of infants and toddlers. Students are required to observe infants and/or toddlers in a group setting. 54 hours lecture.

**CHDV C106**  
A/N/CSU 3.00 Units  
Child Growth and Development

Advisory: CHDV C100, Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There is an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students observe children, evaluate individual differences and analyze characteristics of development at various stages. Students are required to observe children in a group setting. 54 hours lecture.

**CHDV C107**  
A/CSU 3.00 Units  
School Age Development

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course provides information on school-age developmental needs and stages, techniques for interacting positively and effectively with children, and ideas to assist in meeting the wide range of children's needs. The design of schedules, policies, the environment and activities are based upon the understanding of children's development, special needs and cultural background. Students are required to observe school-aged children in an out-of-school setting. 54 hours lecture.

**CHDV C111**  
A/CSU 3.00 Units  
Principles of Child Guidance

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course introduces positive and effective approaches for guiding children's behavior in the classroom and family settings. Students are required to observe children in a group setting. 54 hours lecture.

**CHDV C121**  
A/CSU 3.00 Units  
Health, Safety, and Nutrition

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course provides 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. Focus on integrating the concepts into everyday planning and program development for all children. Students may be required to observe children in a group setting. 54 hours lecture.

**CHDV C122**  
A/CSU 0.50 Units  
Community CPR and First Aid

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Course may be taken unlimited times

In this course students gain working knowledge and skills for emergency action principles, wounds, shock, poisoning, burns splintering, diabetic emergencies, infection, heart attack, temperature extremes, transportation, and bandaging. This is an American Red Cross course. The instructor is responsible for filing the proper forms with the American Red Cross office and for requesting the appropriate cards for the students upon completion of the course. 10 hours lecture.

**CHDV C125**  
A/CSU 3.00 Units  
Diversity in Education

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

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. Students explore various classroom strategies, emphasizing culturally and linguistically appropriate anti-bias approaches that support all children in becoming competent members of a diverse society. This course includes self-examination and reflection on issues related to social identity; stereotypes and bias; social and educational access; media and schooling. Students are required to observe children and/or environments where children are in a group setting. 54 hours lecture.

**CHDV C145**  
A/CSU 3.00 Units  
Language and Literature

Advisory: CHDV C105 or CHDV C106 or CHDV C107, Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course develops the skills of storytelling and story reading for all ages. Special emphasis is on incorporating reading and writing activities into an
emergent literacy program that supports children’s language development through the use of children’s literature. Students are required to observe children in a group setting. 54 hours lecture.

CHDV C149 A/CSU 3.00 Units

Play and Meaning
Advisory: CHDV C105, or CHDV C106, or CHDV C107; Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course delves into the intricacies of play in the classroom and how children use play to develop meaning. Special emphasis is placed on building play into the curriculum for children aged birth to school age. Students are required to observe children in a group setting. 54 hours lecture.

CHDV C200 A/CSU 3.00 Units

Observation and Assessment
Advisory: CHDV C102 and CHDV C104 and CHDV C125; CHDV C105 or CHDV C106 or CHDV C107; and CHDV C145 or CHDV C149
Repeat Status: Not repeatable
This course focuses on the appropriate use of assessment and observation strategies to document growth and development, develop plans and learn how to join with families and professionals in promoting children’s success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. Students are required to observe children in a group setting. 54 hours lecture.

CHDV C203 A/CSU 3.00 Units

Practicum - Field Experience
Prerequisite: CHDV C100 and CHDV C102 and CHDV C104 and CHDV C125 and CHDV C105 or CHDV C106 or CHDV C107; and CHDV C145 or CHDV C149; and CHDV C200.
Repeat Status: Not repeatable
Students demonstrate developmentally appropriate early childhood teaching competencies under guided supervision. Students 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. Students work in a supervised field experience and are required to perform at least 54 hours of practicum work under the direct supervision of a Master Teacher (or someone who would qualify as a Master Teacher) in an instructor-approved infant/toddler or preschool program. School-age program placement is restricted to before and after school programs or kindergarten. Participation in a placement setting requires proof of tuberculosis (TB) clearance. 36 hours lecture/54 hours laboratory.

CHDV C205 A/CSU 3.00 Units

Infant and Toddler Curriculum
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
Students learn to plan a responsive and relationship-based curriculum for infants and toddlers by connecting information about development and learning to how the teacher makes decisions about the curriculum. The student learns to observe babies and respond in ways that promote learning and deepen their relationships with their teachers, their parents, and others. The student learns to appreciate that learning for infants and toddlers occurs in spontaneous moments; through brief interactions; and that each shared expression of surprise or joy is a moment of learning. 54 hours lecture.

CHDV C241 A/CSU 3.00 Units

The Exceptional Child
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course provides a broad overview of exceptional development, including descriptions, and practical strategies needed for those who live and work with children with exceptional needs. Students may be required to observe children in a group setting. 54 hours lecture.

CHDV C251 A/CSU 3.00 Units

Administration of Child Development Programs I
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
Students are introduced to the principles, techniques and methods for the efficient administration of child...
development programs. Topics include: budgeting, personnel leadership and management, health and safety, facility design and layout, and regulations including Title 5 of the California Education Code, Title 22 of the California Code of Regulations and California Health and Safety Code. Students are required to observe licensed or license-exempt programs in their community. 54 hours lecture.

**CHDV C252** A/CSU 3.00 Units  
**Administration of Child Development Programs II**  
Limitation on Enrollment: Completion of 9 units of Child Development course work including CHDV C251  
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

Child Development program administrators are managers responsible for providing oversight for all program operations, as well as leadership in child development and the greater community. This course emphasizes the principles, techniques and methods for creating and maintaining a caring, cooperative workplace that respects human dignity, promotes professional satisfaction, and models positive relationships. Students are required to observe licensed or license-exempt programs in their community. 54 hours lecture.

**CHDV C281** A/CSU 3.00 Units  
**Adult Supervision**  
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course addresses the various components of supervision in the early childhood field from the perspective of administration and mentor teaching. Emphasis is on leadership, advocacy, mentoring, and collaborating in a child care environment to develop positive relationships with staff, families, and children. Students are required to observe supervisors currently working in license and licensed-exempt programs in their community. This course satisfies the adult supervision requirement for the Master Teacher level of the Child Development Permit. 54 hours lecture.

### Computer Science

**CSCI C001** X 0.00 Units  
**Computer Skills Lab**  
Repeat Status: Course may be taken unlimited times

The computer skills lab enables students to build computer literacy and information competency skills. 640 hours open laboratory.

**CSCI C070** A 1.00 Unit  
**Computer Literacy**  
Advisory: Reading Level 2  
Repeat Status: Not repeatable

This hands-on course is designed for those with little or no computer experience. Learners practice file management, email, instant messaging and Internet browsing and searching. This course includes a brief introduction to industry standard word processing, spreadsheet, and presentation application programs. Computer terminology and identification of fundamental hardware and software applications is introduced. 9 hours lecture/27 hours laboratory.

**CSCI C079** A 0.50 Units  
**Special Topics Computer Science**  
Repeat Status: Limit 3

In this course students will learn concepts and develop skills and techniques in the selected topic. 9 hours lecture.

**CSCI C081** A 1.00 Unit  
**Special Topics Computer Science**  
Repeat Status: Limit 3

In this course students will learn concepts and develop skills and techniques in the selected topic. 18 hours lecture.

**CSCI C083** A 3.00 Unit  
**Special Topics Computer Science**  
Repeat Status: Limit 3

In this course students will learn concepts and develop skills and techniques in the selected topic. 54 hours lecture.

**CSCI C101** A/UC/CSU 3.00 Units  
**Introduction to Computer Information Systems**  
Advisory: CSCI C070, Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This survey class introduces the learner to uses of computers in business and society through exploration of hardware, software, file management, networks, digital media, the Internet, webpage creation and business software. Context and issues related to the computer industry as well as information systems and design are presented. Projects include writing and presenting on a relevant topic utilizing business software and research skills developed in class. 36 hours lecture/54 hours laboratory.
CSCI C121 A/CSU 1.00 Unit
Beginning Word
Advisory: CSCI C070, Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This hands-on computer course is designed to provide basic understanding of word processing concepts using Microsoft Word. Learners create, edit, and format documents including business letters, multiple-page reports, newsletters, and cover letters. This course begins preparation for the Microsoft Application Specialist certification exam for Microsoft Word. 9 hours lecture/27 hours laboratory.

CSCI C123 A/CSU 1.00 Unit
Beginning Excel
Advisory: CSCI C070, Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This hands-on computer course is designed to provide a basic understanding of spreadsheets. Spreadsheet design, creation, revision, formatting and printing are covered. Students will create basic sales or expense reports, family budgets and basic business related spreadsheet documents using Microsoft Excel features and functions. This course begins preparation for the Microsoft Office Specialist certification exam for Excel. 9 hours lecture/27 hours laboratory.

CSCI C125 A/CSU 1.00 Unit
Beginning Access
Advisory: CSCI C070, Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This hands-on computer course is designed to provide an intermediate understanding of database programs. Fundamental relational database design and management as well as building and editing basic tables, forms, queries, and reports is introduced. This course begins preparation for the core level Microsoft Access Office Specialist certification exam. 9 hours lecture/27 hours laboratory.

CSCI C129 A/CSU 1.00 Unit
Microsoft Outlook
Advisory: CSCI C070, Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course introduces students to personal management software integrating electronic mail, contact information, task features, a journal, and scheduling with the calendar functions. 9 hours lecture/27 hours laboratory.

CSCI C135 A/CSU 1.00 Unit
Beginning Adobe Acrobat
Advisory: CSCI C070, Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This is a hands-on microcomputer course designed to provide basic understanding of Adobe Acrobat®. Topics include creating portable document files (PDF), working with PDF files, as well as annotation and editing of files. 9 hours lecture/27 hours laboratory.

CSCI C140 A/CSU 2.00 Units
A+ Essential Skills for Computers
Advisory: CSCI C101
Repeat Status: Not repeatable
This course emphasizes a fundamental technical understanding of personal computer hardware, setup, maintenance, and installation in a personal workgroup environment. This course prepares a student for the CompTIA A+ essentials exam for entry level IT Technicians and services as a building block for further certification oriented technical training. 18 hours lecture/54 hours laboratory.

CSCI C141 A/N/CSU 2.00 Units
A+ Standard Skills for IT Technicians
Advisory: CSCI C140
Repeat Status: Not repeatable
This course builds upon the technical understanding of professional computer support and develops competency for troubleshooting in a corporate network environment. This course prepares a student for the CompTIA A+ 220-602 exam for IT Technicians. 18 hours lecture/54 hours laboratory.

CSCI C143 A/N/CSU 3.00 Units
Network+ Fundamentals of Network Technologies
Advisory: CSCI C141 or 1 year equivalent networking experience
Repeat Status: Not repeatable
This course emphasizes the fundamental technical understanding of computer networks. Network+ is a globally recognized certificate to validate a student’s proficiency installing, configuring and troubleshooting basic network hardware, protocols and services. A successful candidate is prepared to take the Network+ certification exam. This course is ideal for prospective candidates in network administration and/or further training in Microsoft, Linux, and/or network routing and switching. 36 hours lecture/54 hours laboratory.

CSCI C146 A/N/CSU 3.00 Units
Security+ Fundamentals of Network Security
Advisory: CSCI C143 or 2 years equivalent experience in the Information Technology field
Repeat Status: Not repeatable
This course emphasizes the fundamental technical understanding of computer and network security principals. Security+ is a globally recognized certificate that validates a student’s knowledge in the implementation of practical hardware, software, network and Internet security. A successful candidate is prepared to take the Security+ certification exam. This course is ideal for prospective candidates who want to master practical network and computer security. 36 hours lecture/54 hours laboratory.

**CSCI C151**  A/CSU  1.00 Unit  
**Intermediate Word**  
Advisory: CSCI C121  
Repeat Status: Not repeatable  
This hands-on computer course is designed to provide an intermediate understanding of word processing concepts using Microsoft Word. Learners create, edit, and format documents including a business plan, form letters, mailing labels, and learn how to collaborate with others on the creation of complex documents. This course continues preparation for the Microsoft Office Application Specialist certification exam for Microsoft Word. 9 hours lecture/27 hours laboratory.

**CSCI C153**  A/CSU  1.00 Unit  
**Intermediate Excel**  
Advisory: CSCI C123  
Repeat Status: Not repeatable  
This hands-on computer course is designed to provide an intermediate understanding of spreadsheets. Learn how to analyze data through list management, using autofilter, sort and pivot table features. Work with multiple worksheets and workbooks, and then create a shared workbook, resolve conflicts, and track changes. Finally, plan and prepare an application using Excel’s data validation feature and button creation using macros. This course completes topics required in preparation for Microsoft Application Specialist exam for Excel. 9 hours lecture/27 hours laboratory.

**CSCI C155**  A/CSU  1.00 Unit  
**Intermediate Access**  
Advisory: CSCI C125  
Repeat Status: Not repeatable  
This hands-on computer course is designed to provide an intermediate understanding of database objects and functionality. Advanced queries, table design, custom forms and reports are covered along with integrating Access with the web and other programs. This course continues study of skills required in preparation for Microsoft Application Specialist exam for Access. 9 hours lecture/27 hours laboratory.

**CSCI C161**  A/CSU  1.00 Unit  
**Advanced Word**  
Prerequisite: CSCI C151  
Repeat Status: Not repeatable  
This hands-on computer course is designed to provide an advanced understanding of word processing concepts using Microsoft Word. Learners create a document template, apply advanced word processing features, import and run Visual Basic for Applications (VBA) macros, create on-screen forms and calculations with advanced table techniques, record macros, and work with long documents and subdocuments. This course completes preparation for the expert level Microsoft Office Application Specialist certification exam for Microsoft Word. 9 hours lecture/27 hours laboratory.

**CSCI C163**  A/CSU  1.00 Unit  
**Advanced Excel**  
Prerequisite: CSCI C153  
Repeat Status: Not repeatable  
This hands-on computer course is designed to provide an advanced understanding of spreadsheets using Microsoft Excel. Data Tables, Scenario Management, using Solver, importing and exporting data, enhancing with Visual Basic for applications and modifying Excel default settings are covered. This course completes preparation for the Microsoft Application Specialist certification exam for Excel. 9 hours lecture/27 hours laboratory.

**CSCI C165**  A/CSU  1.00 Unit  
**Advanced Access**  
Prerequisite: CSCI C155  
Repeat Status: Not repeatable  
This hands-on computer course is designed to provide an advanced understanding of entry level creation and modification of database applications in business. Action queries, table relationship properties, automating tasks with macros are covered including Switchboard development. Visual Basic for Applications is introduced to enhance database construction and functionality. Managing with replication and synchronization as well securing with user level Security Wizard is included. This course completes study of skills required in preparation for Microsoft Application Specialist exam for Access. 9 hours lecture/27 hours laboratory.

**CSCI C171**  A/CSU  1.00 Unit  
**Introduction to the Internet and the World Wide Web**  
Advisory: CSCI C070, Reading Level 1, Writing Level 1
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Repeat Status: Not repeatable

This course provides a hands-on introduction to the Internet and World Wide Web, including electronic mail, file transfer protocol (FTP), browser use, web page development, security, e-commerce, search strategies, copyrights, and social networking. 9 hours lecture/27 hours laboratory.

CSCI C181  A/CSU  3.00 Units
Fundamentals of Web Development

Advisory: Computer Competency, Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

This entry-level course provides students with the skills to create web pages in XHTML and CSS using a text editor. This course emphasizes current web standards which include code validation, semantics, and separating content from style. Microformats and modern web trends are also discussed. Note: This course is cross listed with DMA C111. 36 hours lecture/54 hours laboratory.

CSCI C187  A/CSU  1.00 Unit
Introduction to Microsoft Project

Advisory: CSCI C101
Repeat Status: Not repeatable

This course introduces the learner to concepts of project management and the Microsoft Project program. Learners learn how to plan projects, create project schedules, communicate project information, assign resources and costs to project tasks, and track and forecast project progress and completion. 9 hours lecture/27 hours laboratory.

CSCI C241  A/CSU  3.00 Units
Introduction to Telecommunications

Prerequisite: CSCI C101
Repeat Status: Not repeatable

This course is designed to familiarize the student with the techniques, applications and control of modern data communications networks. The course provides the student with a working knowledge of the types of communications systems and their strengths and weaknesses in solving various information network problems. 36 hours lecture/54 hours laboratory.

CSCI C251  A/UC/CSU  3.00 Units
Introduction to Visual Basic Programming

Prerequisite: CSCI C101
Repeat Status: Not repeatable

This course is an introduction to object-oriented programming and the integrated development environment (IDE) of Visual Basic, including fundamentals, logic algorithm development, classes and objects. 36 hours lecture/54 hours laboratory.

CSCI C252  A/UC/CSU  3.00 Units
Introduction to Computer Science

Prerequisite: CSCI C101, MATH C055
Repeat Status: Not repeatable

This course explores topics of computer science within a framework of a six-layer hierarchy of abstractions. In addition to some motivational applications such as Web page design and interactive graphics, the course covers the fundamental issues of algorithms, hardware design, computer organization, system software, language models, theory of computation, and social and ethical issues of computing. The course involves some introductory programming in an object oriented language. Intended for computer science majors. 36 hours lecture/54 hours laboratory.

CSCI C265  A/UC/CSU  3.00 Units
Introductory C++ Programming

Prerequisite: CSCI C101
Repeat Status: Not repeatable

This course is an introduction to C++ object-oriented programming, including fundamentals, logic, algorithm development, classes, functions and inheritance. 36 hours lecture/54 hours laboratory.

CSCI C267  A/UC/CSU  3.00 Units
Introduction to Java Programming

Prerequisite: CSCI C101, MATH C055
Repeat Status: Not repeatable

This course introduces techniques and principles of problem solving using computer systems with the Java computer programming language. The development of applications and applets with Java will be covered using object-oriented programming techniques. 36 hours lecture/54 hours laboratory.

CSCI C270  A/CSU  3.00 Units
Introduction to Database Design and Management

Advisory: CSCI C101, Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course introduces the concepts of database systems, design, and management. The course will cover the relational database model, normalization, entity-relationship diagrams and SQL (Structured Query Language). Additional topics include data warehousing, and web-based database development. 36 hours lecture/54 hours laboratory.
COURSE DESCRIPTIONS

CSCI C280  A/CSU  3.00 Units
Web Application Development Using PHP
Prerequisite: DMA C211
Repeat Status: Not repeatable
This course covers an introduction to the use of the PHP platform to develop dynamic web applications. It covers the origins, syntax and structure of PHP, as well as the PHP-specific commands and objects and their use in PHP development. This course is cross listed with DMA C213. 36 hours lecture/54 hours laboratory.

CSCI C285  A/CSU  3.00 Units
Extensible Markup Language (XML)
Prerequisite: CSCI C101, MATH C055
Advisory: DMA C111/CSCI C181
Repeat Status: Not repeatable
An introduction to Extensible Markup Language (XML), an engine that allows users to describe data regardless of whether that data is being processed via fax, wireless device, or computer. Students will learn how to share and access data both on the web and in business settings. 36 hours lecture/54 hours laboratory.

Counselling

COUN C101  A/UC/CSU  2.00 Units
Tools for College Success
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course introduces students to the process of academic and career planning by means of personal and group exercises. Life skills such as critical thinking, resource management, personal assessment and motivational factors are explored. Issues of diversity that may impact the student will be raised (e.g. equal access, job opportunities and barriers to education) through class discussions and readings. 36 hours lecture.

Digital Media Arts

DMA C102  A/UC/CSU  3.00 Units
Digital Imaging with Photoshop
Advisory: Computer Competency, Reading Level 1, Writing Level 2
Repeat Status: Limit 3
This course provides beginning through intermediate concepts in digital imaging. Topics covered include image editing and enhancing, original creation of composite images from photographs and artwork, drawing and painting original digital artwork, and the creation of web graphics. Students will incorporate basic design principles in their digital photographs and compositions. 36 hours lecture/54 hours laboratory.

DMA C103  A/CSU  2.00 Units
Digital Photo Enhancement with Photoshop
Advisory: Computer Competency, Reading Level 1, Writing Level 2
Repeat Status: Limit 3
This course provides beginning through intermediate concepts in digital photograph editing techniques using Photoshop, including correcting color, tone, saturation, and sharpness. Students also learn how to repair or retouch distorted or damaged photographs, apply common photographic special effects, and prepare color images for output. 24 hours lecture/36 hours laboratory.

DMA C107  A/CSU  3.00 Units
Illustration and Design with Illustrator
Advisory: Computer Competency, Reading Level 1, Writing Level 2
Repeat Status: Limit 3
This course enables students to develop computer illustration and design skills through visual design exercises and projects, including logos and marks, technical and creative illustration, package designs, and simple graphic communications. Students develop an awareness of various illustrative styles and genre. Students also develop proficiency through the intermediate level in the use of vector drawing application, Adobe Illustrator. No prior knowledge of the software is required. 36 hours lecture/54 hours laboratory.

DMA C108  A/CSU  3.00 Units
Advanced Digital Imaging and Illustration
Advisory: DMA C102, DMA C107
Repeat Status: Limit 3
This course provides students with advanced skills in digital imaging and computer illustration. They will study a variety of illustration styles and design periods and begin to develop a personal style of their own. Students will learn how to use Adobe Photoshop and Illustrator together to leverage techniques for a particular design problem. 36 hours lecture/54 hours laboratory.

DMA C109  A/CSU  3.00 Units
Desktop Publishing with InDesign
Advisory: Computer Competency, Reading Level 1, Writing Level 2
Repeat Status: Limit 3
This course provides students with a strong foundation in graphic design theory with specific emphasis on typography and the design of multi-page documents, such as newsletters, brochures, magazines pages, calendars, and books. Students develop an awareness
of various graphic design styles and genres. Students also develop proficiency through the intermediate level in the use of the desktop publishing software, Adobe InDesign. No prior knowledge of the software is required. 36 hours lecture/54 hours laboratory.

**DMA C111**  A/CSU  3.00 Units  
**Fundamentals of Web Development**  
Advisory: Computer Competency, Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
This entry-level course provides students with the skills to create web pages in XHTML and CSS using a text editor. This course emphasizes current web standards which include code validation, semantics, and separating content from style. Microformats and modern web trends are also discussed. This course is cross listed with CSCI C181. 36 hours lecture/54 hours laboratory.

**DMA C113**  A/CSU  3.00 Units  
**Accessibility and Usability**  
Advisory: Computer Competency, Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
This course examines web usability and accessibility and provides students with the skills to analyze and critique web content on those issues. Students will learn the critical service that the internet provides in the lives of disabled individuals, they will learn how these individuals access and navigate web content, and they will learn how to design websites that accommodate them. 54 hours lecture.

**DMA C115**  A/CSU  4.00 Units  
**Interactivity and Interface Design with Flash**  
Advisory: Computer Competency, Reading Level 1, Writing Level 2  
Repeat Status: Limit 3  
This course provides students with an in-depth analysis of multimedia interactivity, including the psychology of user interaction and methods for designing and developing effective navigational interfaces. Students will also learn the fundamentals of web animation and interactivity with Adobe Flash. No prior knowledge of the software is required. 45 hours lecture/81 hours laboratory.

**DMA C117**  A/CSU  3.00 Units  
**Web Design with Dreamweaver**  
Prerequisite: DMA C111 or CSCI C181  
Advisory: DMA C102  
Repeat Status: Limit 3  
This course provides students with the opportunity to develop and refine visual design skills, building upon students’ previous foundation of digital imaging, XHTML and CSS markup. Students develop an awareness of various web design styles and genre. They also develop proficiency through the intermediate level in the use of web development software, Adobe Dreamweaver. It is essential that students have previous working knowledge of Photoshop or another digital imaging application. DMA C102 is merely an advisory requisite to accommodate students who have acquired such skills through self-study or a course from another college. 36 hours lecture/54 hours laboratory.

**DMA C121**  A/CSU  3.00 Units  
**Principles of Animation with Flash**  
Advisory: Computer Competency, Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
The hands-on course introduces the student to the fundamentals of animation. The student will study the principles of animation, learn how to create and animate graphics, and explore basic 2D digital animation techniques. 36 hours lecture/54 hours laboratory.

**DMA C130**  A/CSU  1.5 Units  
**Introduction to Podcasting**  
Advisory: Computer Competency, Reading Level 1, Writing Level 2  
Repeat Status: Limit 3  
This course provides students with practical experience in creating audio and video podcasts using software that is open source or bundled with an operating system. Course topics include planning, recording, editing, applying compression, and publishing the file to a server. Students will also learn how podcasting is being used in education, business, entertainment, and a variety of other industries. 18 hours lecture/27 hours laboratory.

**DMA C131**  A/CSU  3.00 Units  
**Digital Video Production**  
Advisory: Computer Competency, Reading Level 1, Writing Level 2  
Repeat Status: Limit 3  
This course introduces digital video production techniques including: single camera operation and procedures, basic principles and techniques of sound and script writing, and digital video editing. Course topics include the operation of digital camcorders, lighting and sound equipment, post-production digital editing suites, concepts and techniques of nonlinear digital editing, including organization of the editing process, working the timeline and audio editing, with emphasis on the principles and aesthetics of video editing. 36 hours lecture/54 hours laboratory.
**Course Descriptions**

**DMA C133**  A/CSU  3.00 Units  
**Motion Graphics with After Effect**  
Advisory: Computer Competency, Reading Level 1, Writing Level 2  
Repeat Status: Limit 3  
In this project based course, students will learn to produce visual effects, composite images and movies, and create original animated presentations. Topics include combining video, still images, graphics, text and sound into video productions. A special emphasis is placed upon the fundamental motion graphics skills necessary to produce video content for broadcast, web and multimedia. 36 hours lecture/54 hours laboratory.

**DMA C135**  A/CSU  3.00 Units  
**Digital Cinematography**  
Advisory: DMA C131  
Repeat Status: Limit 3  
This is a course in digital cinema planning and production through hands-on experience. Course topics include artistic expression, logistics, script writing, single camera operation and procedures, lighting, sound recording and editing, and digital video editing. 36 hours lecture/54 hours laboratory.

**DMA C211**  A/CSU  3.00 Units  
**Web Scripting with JavaScript**  
Advisory: DMA C111/CSCI C181, Reading Level 1, Math Level 3  
Repeat Status: Not repeatable  
This course provides students with the skills to create highly interactive web pages with JavaScript. Practical application of JavaScript include navigation rollover effects, manipulating windows, manipulating form data, validating forms, creating drop down menus, and displaying current date and time. 36 hours lecture/54 hours laboratory.

**DMA C213**  A/CSU  3.00 Units  
**Web Development with PHP and MySQL**  
Advisory: DMA C211, Reading Level 1, Math Level 3  
Repeat Status: Not repeatable  
This course provides students with the skills to create dynamic webpages with PHP and MySQL. Practical applications of PHP include web form data processing, work with MySQL databases, and read and write text files. This course is cross listed with CSCI C280. 36 hours lecture/54 hours laboratory.

**DMA C217**  A/CSU  3.00 Units  
**PHP Site Management and Theme Design**  
Prerequisite: CSCI C181 or DMA C111  
Advisory: DMA C213  
Repeat Status: Not repeatable  
In this course, students learn how to install a PHP-driven content management system (CMS), manage local and remote servers, configure the site, add content, and monitor site usage. Students work with one of several popular open source CMSs, their choice of Joomla, Drupal, or WordPress. They learn how to alter existing themes and to create a custom theme for their chosen content management system. Prior to the start of the course, students will need a personal account with a web hosting service that accommodates the CMS with which they wish to work. 36 hours lecture/54 hours laboratory.

**DMA C280**  A/CSU  3.00 Units  
**Web Production Management**  
Prerequisite: DMA C111 or CSCI C181  
Advisory: DMA C102, DMA C113, DMA C117  
Repeat Status: Not repeatable  
This is a course in web design project planning and production. Students work in teams to design and complete a commercial website. Students develop an understanding of team roles, workflow, budgeting, and legal and technical considerations for completing a project. 36 hours lecture/54 hours laboratory.

**Drafting**

**DRFT C108**  A/CSU  3.00 Units  
**Reading Technical Drawings**  
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course provides students with the opportunity to develop skills in reading and interpreting technical drawings used in an industrial environment. Principles of technical drawing are introduced along with standard symbols and abbreviations found in industrial drawings, schematics, and diagrams. Students produce technical sketches without the use of instruments. This course is cross listed with INDT C108. 54 hours lecture.

**DRFT C111**  A/CSU  3.00 Units  
**Engineering Drawing I**  
Advisory: CSCI C070, Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
This course includes fundamentals, techniques, procedures and practices of industrial drafting and design based upon American Standards Association (ASA) and American National Standards Institute (ANSI) standards. Lettering, basic theory of orthographic projection, detail drawing, use of drafting instruments and equipment, sectioning, auxiliary view-drawings, shop processes, geometric dimensioning and
tolerancing for use in detailed working drawings are covered. Computer aided drawing fundamentals using application software such as AutoCAD will be explored in relation to the basics of design. 36 hours lecture/54 hours laboratory.

**DRFT C112**  
*A/CSU*  
3.00 Units  
*Engineering Drawing II*

Prerequisite: DRFT C111 or two years of high school drafting with grades of "B" or better.  
Advisory: CSCI C101.  
Repeat Status: Not repeatable

This course includes fundamentals, techniques, procedures and practices of industrial drafting and design based upon ANSI, ASME, US National CADD and related standards. Computer aided design using AutoCAD 2D and 3D parametric design software, basic theory of orthographic projection, detailed drawings, printing drawings, sectioning, auxiliary view drawings, shop processes, geometric dimensioning and tolerancing and detailed working drawings are included. 36 hours lecture/54 hours laboratory.

**Economics**

**ECON C101**  
*A/UC/CSU*  
3.00 Units  
*Introduction to Economics*

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course covers macro and micro economic concepts as they apply to current economic problems for the non-economics and non-business major. Economics C101 is a survey of economics for many majors, especially those requiring one semester of economics. 54 hours lecture.

**ECON C102**  
*A/UC/CSU*  
3.00 Units  
*Macro-Economics*

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course is the study of the national and global economy, the impact of economic aggregates, and government action. The course emphasizes macroeconomic concepts, including national income, productivity, employment, inflation, and monetary and fiscal policy. The course explores business cycles, international trade, finance, and the impact on the world from economic growth. 54 hours lecture.

**ECON C103**  
*A/UC/CSU*  
3.00 Units  
*Micro-Economics*

Advisory: ECON C102  
Repeat Status: Not repeatable

This course focuses on the study of decisions by consumers and corporations in the allocation of scarce resources. The topics include the basics of supply and demand, price-output determination, industrial organization, profit maximization, labor market analysis, and the economics of developing countries. 54 hours lecture.

**Education**

**EDUC C170**  
*A/CSU*  
0.50 Units  
*Tutor Training I*

Advisory: Computer Competency, Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

The purpose of training is to develop tutoring methods and skills for students who plan to work as tutors. This training is one part of an International Tutor Certification Program. This course is open to any student; however, training does not ensure a student will be hired as a tutor. 10 hours lecture.

**EDUC C201**  
*A/CSU*  
3.00 Units  
*Educational Field Experience*

Advisory: Reading Level 1, Writing Level 1, Math Level 1  
Repeat Status: Not repeatable

This course is designed to provide a prospective teacher with a practical framework for further education work and study appropriate to their career goals. This class requires observation and participation in a diverse learning environment supervised by a credentialed teacher and attendance at all on-campus seminars. Placement will be made in an elementary or secondary classroom. A freedom from tuberculosis certificate is required prior to classroom admission. 36 hours lecture/54 hours laboratory.

**EDUC C262**  
*A/CSU*  
1.50 Units  
*Fundamentals of Online Teaching and Learning*

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course provides students with an understanding of the opportunities and challenges that technology and the online learning environment presents to online learning. Fundamental concepts of best practice in online teaching are explored, such as equipping students for the Knowledge Economy, the cultivation of a learning community, an overview of learning theory, and accommodating diverse learning styles and abilities. 27 hours lecture.
EDUC C263 A/CSU 1.50 Units
Technology and Online Course Design
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course provides students with an understanding of opportunities and challenges that technology and the online learning environment present to online learning. The course reviews best practices in online teaching, such as equipping student for the knowledge economy, cultivating a learning community, using learning theory, and accommodating diverse learning styles and abilities. 27 hours lecture.

Electronics Technology

ET C101 A/CSU 4.00 Units
Electrical Circuit Analysis I
Advisory: MATH C050
Repeat Status: Not repeatable
Students will learn International System of Units; engineering notation and prefixes; definitions of current, voltage, resistance, power, work and efficiency; Ohm's and Kirchhoff's Laws; series and parallel circuit principles; series-parallel, DC resistive networks. Thevenin and Nor-ton's theorems. This course is cross listed with RET C111. 72 hours lecture.

ET C105 A/CSU 4.00 Units
Electrical Circuit Analysis II
Prerequisite: ET C101 or RET C111
Advisory: MATH C142
Repeat Status: Not repeatable
This course covers the basic theory and application of diodes (rectifiers, zener, etc.), bipolar transistors (biasing, small signal amplifiers, large signal amplifiers), transistors used as switches, field effect transistors, feedback, frequency effects, and operational amplifiers. This course is cross listed with RET C112. 72 hours lecture.

ET C212 A/N/CSU 3.00 Units
Microelectronics
Prerequisite: ET C105
Repeat Status: Not repeatable
This course covers the basic theory and application of diodes (rectifiers, zener, etc.) bipolar transistors (biasing, small signal amplifiers, large signal amplifiers), transistors used as switches, field effect transistors, feedback, frequency effects, and operational amplifiers. 54 hours lecture.

ET C222 A/CSU 3.00 Units
Digital Circuits/Microprocessors
Prerequisite: ET C105
Repeat Status: Not repeatable
Introduction to digital electronics which includes: Boolean Algebra, logic gates, numbering systems, digital codes, arithmetic circuits, memory circuits, counting circuits, multiplexers, microprocessor fundamentals, multi-vibrators, and digital-to-analog interfaces. 54 hours lecture.

Emergency Medical Technology

EMTC C070 A 0.50 Units
CPR for the Healthcare Provider
Repeat Status: Course may be taken unlimited times
This is a Healthcare Provider – CPR Course that meets or exceeds the current American Heart Association standards. The course provides training in emergency treatment for life-threatening cardiopulmonary arrest, airway and breathing management, and foreign body obstructed airway for all age groups. This course also includes one and two rescuer CPR, use of barrier devices, AED use and the prevention of disease transmission. Note: This course is cross listed with HCRS C070. 10 hours lecture.

EMTC C105 A/CSU 6.50 Units
Emergency Medical Technician
Advisory: HCRS C150, Reading Level 1, Writing Level 1
Repeat Status: Course may be taken unlimited times
This course provides instruction in pre-hospital techniques in the evaluation and emergency medical care through the recognition of signs and symptoms of illnesses and injuries. This course also includes instruction in the care rendered on scene and during transportation by EMT personnel. The student shall meet health requirements to participate in the clinical section of the course. Any expenses involved in meeting the health requirement are at the student's expense. Failure to meet the health requirements results in student ineligibility for clinical objectives. Upon successful completion of the mandated course criteria the student receives a Certificate of Completion and this qualifies the student to apply and take the national exam for the Emergency Medical Technician, to ultimately qualify for application within the State of California to become certified. The student must provide a valid American Heart Association Healthcare Provider CPR/AED card to the instructor at the first class session to remain enrolled in this course. 90 hours lecture/81 hours laboratory.
EMTC C106  A/CSU  0.50 Units
First Aid/Cardiopulmonary Resuscitation/
Automated External Defibrillator
Repeat Status: Course may be taken unlimited times

This course teaches current First Aid instruction for “Schools and the Community” through discussion, demonstrations, and practical experiences. It includes Emergency Action Steps; breathing and cardiac problem recognition and care; CPR (Cardiopulmonary Resuscitation) for adult, child, infant; AED (Automated External Defibrillator) for adult and child, and choking for conscious and unconscious person; wound care; bandaging; shock; poisoning; local poisonous plants and animals; burns; bone and joint injuries including splinting; diabetic emergencies; temperature extremes; and other sudden illnesses. It may also include disaster preparation and family planning for local emergencies. Note: This course is cross listed with HCRS C106 and HSCI C105. 10 hours lecture.

EMTC C110  A/CSU  1.50 Units
Emergency Medical Services Instructor
Prerequisite: EMTC C105
Repeat Status: Course may be taken unlimited times

This course provides techniques of instruction for the new or refreshing EMS instructor. Topics cover principles of: knowing and using effective techniques in the didactic, practical, and clinical educational environments; how to provide the adult learner the best opportunity for success; and how to prepare class, lesson, and program plans; instruction using a variety of audio, visual, and kinesthetic learning techniques. Students present an assigned lecture and practical instruction segment as a part of this course. Computer access with internet connection is required for this course to access the latest national standards and the online class testing site. 18 hours lecture/27 hours laboratory.

EMTC C205  A/CSU  1.50 Units
Emergency Medical Technology – Basic Refresher
Prerequisite: EMTC C105 or current certification as an EMT-B
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Course may be taken unlimited times

A review of the techniques of emergency medical care through recognition of signs and symptoms of illnesses and injuries. Proper procedures of emergency care and transportation aspects required for Emergency Medical Technician-Basic (EMT-B) personnel. Upon completion of the above objectives and passing the Final Exams, the student will receive a Certificate of Completion and state skills form. This qualifies the student to recertify and/or apply and take the national exam for the EMT-B, to ultimately qualify for application within the State of California. 24 hours lecture/8 hours laboratory.

Engineering

ENGR C110  A/UC/CSU  4.00 Units
Introduction to Engineering
Prerequisite: MATH C141, MATH C142
Repeat Status: Not repeatable

This course provides an introduction to the profession of engineering and its connection with society today and in the future. The development of basic engineering skills for future success in the field is emphasized. Engineering disciplines, functions, and employment opportunities are considered. Application of the engineering problem solving method, teamwork, and the design process are practiced. Typical engineering problems are solved aided by use of computer software. College Courses required for individual engineering majors are illustrated. 54 hours lecture/54 hours laboratory.

ENGR C120  A/UC/CSU  4.00 Units
Introduction to Materials Science
Prerequisite: CHEM C111, PHYS C111
Repeat Status: Not repeatable

This course investigates the relationships between microscopic structures and the macroscopic properties of engineering materials including metals, ceramics, glasses, polymers, and composites. Mechanical, thermal, electrical, magnetic and optical properties are examined. Processes for producing and strengthening various materials are introduced. 54 hours lecture/54 hours laboratory.

ENGR C185  A/UC/CSU  4.00 Units
Digital Logic and Design
Prerequisite: MATH C141, MATH C142
Repeat Status: Not repeatable

This course covers discrete mathematics, logic, Boolean algebra, binary arithmetic, logic gates, combinatorial logic, and minimization techniques. This course also includes an introduction to sequential circuits, state machines and synchronous state machine design. Students design combinatorial circuits, flipflops, multivibrators, registers, and counters. 54 hours lecture/54 hours laboratory.

ENGR C210  A/UC/CSU  3.00 Units
Engineering Mechanics: Statics
Prerequisite: PHYS C111
Repeat Status: Not repeatable

This course covers the analysis of force systems,
equilibrium problems, section properties; graphic, algebraic, and vector methods of problem solution for rigid body mechanics. 54 hours lecture.

**ENGR C230**  
**Engineering Circuit Analysis**  
Prerequisite: PHYS C113  
Repeat Status: Not repeatable  
This course covers Ohm’s and Kirchhoff’s Law, Mesh and Nodal analysis, basic network theorems, RL and RC transients, phasors and steady-state sinusoidal analysis, first and second order circuits, current, voltage and power relationships. This course is designed for students majoring in electrical and electronics engineering. 54 hours lecture/54 hours laboratory.

**English**

**ENGL C010**  
**English Boot Camp**  
Repeat Status: Course may be taken unlimited times  
This course is an intensive refresher of writing and grammar skills to help students get ready for English Courses or prepare to take the Cerro Coso Placement Exam. 18 hours lecture.

**ENGL C020**  
**Literacy Skills**  
Repeat Status: Not repeatable  
This course is designed to help students improve their reading and writing skills, learn sentence structures, gain an understanding of basic principles of grammar and spelling, develop their vocabulary, and learn ways to express ideas in short writings. 54 hours lecture.

**ENGL C030**  
**Basic Writing Skills**  
Prerequisite: ENGL C020 or Writing Level 4  
Advisory: Reading Level 3  
Repeat Status: Not repeatable  
This course teaches students ways to develop and organize ideas in short writings, focusing on the importance of coherent, unified, and well-developed paragraphs with topic sentences and effective supporting detail. The course will also cover how to build these paragraphs into short essays and how to revise and edit for correctness. Major principles of grammar will be reviewed. 72 hours lecture.

**ENGL C040**  
**Improving College Writing Skills**  
Prerequisite: ENGL C030  
Repeat Status: Not repeatable  
This course, which is preparation for college composition, is designed to teach students to write short compositions (500-750 words each) with clear organization, development, keywords, thesis, topic sentences, and sufficient supporting details. Students will become familiar with a variety of rhetorical modes, be introduced to expository and text-based writing, and complete in-class compositions. 72 hours lecture.

**ENGL C070**  
**Introductory Composition**  
Prerequisite: ENGL C040  
Repeat Status: Not repeatable  
This composition course for AA/AS degrees prepares students to take transfer-level Courses and to enter the job market. Students write four to six short expository and argumentative essays and a 1,000-1,250 word research paper with a central controlling idea, coherent development to a reasoned conclusion, and correct sentence structure, punctuation, and spelling. The course further emphasizes properly acknowledging and documenting outside sources. 72 hours lecture.

**ENGL C092**  
**Grammar and Punctuation Refresher**  
Prerequisite: Reading Level 2  
Advisory: Writing Level 2  
Repeat Status: Not repeatable  
This course is designed for students of all levels. Topics include recognizing sentence patterns, avoiding run-ons and fragments, knowing when to use the comma, correctly employing the minor punctuation marks of semicolon, colon, dash, and others. Some time will be spent on grammar’s relation to style and a brief history of the English language. 36 hours lecture.

**ENGL C101**  
**Freshman Composition**  
Prerequisite: ENGL C070  
Repeat Status: Not repeatable  
In this composition course for transfer to four-year institutions, students write at least four expository and argumentative essays, including a substantive research paper of 2,000 words showing the student’s ability to analyze and evaluate source material and to generate and develop independent topics of inquiry appropriate to academic work (total: 7,000 words). The course emphasizes and analyzing and actively engaging university-level concepts presented in outside sources. 72 hours lecture.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Title</th>
<th>Prerequisites</th>
<th>Limitation on Enrollment</th>
<th>Repeat Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL C101H</td>
<td>5.00</td>
<td>Freshman Composition – Honors</td>
<td>Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.</td>
<td>Prerequisite: ENGL C070</td>
<td>Not repeatable</td>
<td>In this composition course for transfer to four-year institutions, students write at least four explanatory and argumentative essays, including a substantive research paper of 2,000 words showing the student's ability to analyze and evaluate source material and to generate and develop independent topics of inquiry appropriate to academic work (total: 7,000 words). The course emphasizes analyzing and actively engaging university-level concepts presented in outside sources. The honors course provides more content and requires greater intensity and depth of study than the non-honors course; the honors course also requires at least one extra research assignment beyond that required in the non-honors course. 72 hours lecture.</td>
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<tr>
<td>ENGL C102</td>
<td>3.00</td>
<td>Critical Thinking Through Literature</td>
<td>Prerequisite: ENGL C101</td>
<td>Repeat Status: Not repeatable</td>
<td>In this composition course for transfer to four-year institutions, students continue development of composition and critical reasoning skills begun in ENGL C101 through advanced study of imaginative literature (novels, poetry, drama) and arguments. The course emphasizes critical analysis, principles of logic, and presentation of carefully-reasoned written arguments. Students write four to five expository and argumentative essays, including some requiring multiple sources showing the student's ability to analyze and evaluate source material and to generate and develop independent topics of inquiry (total: 8,000 words). 54 hours lecture.</td>
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<tr>
<td>ENGL C102H</td>
<td>4.00</td>
<td>Critical Thinking Through Literature – Honors</td>
<td>Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.</td>
<td>Prerequisite: ENGL C101</td>
<td>Not repeatable</td>
<td>In this composition course for transfer to four-year institutions, students continue development of composition and critical reasoning skills begun in ENGL C101 through advanced study of imaginative literature (novels, poetry, drama) and arguments. The course emphasizes critical analysis, principles of logic, and presentation of carefully-reasoned written arguments. Students write four to five expository and argumentative essays, including some requiring multiple sources showing the student's ability to analyze and evaluate source material and to generate and develop independent topics of inquiry (total: 8,000 words). 54 hours lecture.</td>
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<tr>
<td>ENGL C111</td>
<td>3.00</td>
<td>Introduction to Types of Literature</td>
<td>Advisory: Reading Level 1, Writing Level 1</td>
<td>Repeat Status: Not repeatable</td>
<td>This course provides students an introduction to the analysis and interpretation of imaginative literature and will develop students' ability to understand structure, theme, and artistic purpose in works of poetry, drama, and fiction. 54 hours lecture.</td>
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<tr>
<td>ENGL C111H</td>
<td>4.00</td>
<td>Introduction to Types of Literature – Honors</td>
<td>Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.</td>
<td>Advisory: Reading Level 1, Writing Level 1</td>
<td>Repeat Status: Not repeatable</td>
<td>This course provides students an introduction to the analysis and interpretation of imaginative literature and will develop students' ability to understand structure, theme, and artistic purpose in works of poetry, drama, and fiction. The honors course provides more content and requires greater intensity and depth of study than the non-honors course; the honors course also requires at least one extra research assignment. 72 hours lecture.</td>
</tr>
<tr>
<td>ENGL C141</td>
<td>3.00</td>
<td>Creative Writing: Fiction and Poetry</td>
<td>Prerequisite: ENGL C070</td>
<td>Repeat Status: Limit 3</td>
<td>This course is a creative writing workshop in which the student submits original short stories and poems for group discussion. The student will also study works by contemporary authors in order to develop knowledge of the form and theory behind good fiction and poetry. 54 hours lecture.</td>
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<tr>
<td>ENGL C145</td>
<td>3.00</td>
<td>Business Communication</td>
<td>Advisory: Writing Level 1</td>
<td>Repeat Status: Not repeatable</td>
<td>Discussion, critique, and practice of business writing techniques, emphasizing the psychology of effective writing. Not open to students with credit in BSAD C145. 54 hours lecture.</td>
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</tr>
</tbody>
</table>
ENGL C151 A/CSU 3.00 Units
Technical Communication
Prerequisite: ENGL C070 or Writing Level 2
Advisory: Reading Level 1
Repeat Status: Not repeatable
This course stresses clarity and accuracy in written communication appropriate for technical fields, both in print and electronic forms. Students will gain the skills necessary to research, write, and edit effective content. They will learn to divide content into sections and organize those sections into a navigational structure. Students will also learn how to convert narrative data into visual elements and how to present such information accurately. Topics include formal and informal reports, letters, instructions, and the design elements of the technical writer’s job. 54 hours lecture.

ENGL C190 A/UC/CSU 3.00 Units
Art of Fiction
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course introduces students to the variety, nature, and techniques of fictional narrative. Students will read and analyze short stories to better understand the function of plot, character, setting, imagery, theme, and point of view in narrative art. 54 hours lecture.

ENGL C221 A/UC/CSU 3.00 Units
World Literature I
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course provides a chronological survey of the literature of the literature of the world from the Biblical period through the Renaissance. 54 hours lecture.

ENGL C221H A/UC/CSU 4.00 Units
World Literature I – Honors
Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course provides a chronological survey of the literature of Europe from the seventeenth century through the twentieth century. The honors course provides more content and requires greater intensity and depth of study than the non-honors course; the honors course also requires at least one extra research assignment. 72 hours lecture.

ENGL C231 A/UC/CSU 3.00 Units
Survey of British Literature I: Beginnings–1785
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course studies English literature from Anglo-Saxon times to the end of the eighteenth century. 54 hours lecture.

ENGL C231H A/UC/CSU 4.00 Units
Survey of British Literature I: Beginnings–1785 – Honors
Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course studies English literature from Anglo-Saxon times to the end of the eighteenth century. The honors course provides more content and requires greater intensity and depth of study than the non-honors class; the honors course also requires at least one extra research assignment. 72 hours lecture.

ENGL C232 A/UC/CSU 3.00 Units
Survey of British Literature II: 1785–Present
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course studies British literature from the Romantic Period to the present. 54 hours lecture.
ENGL C232H  A/UC/CSU  4.00 Units
Survey of British Literature II: 1785–Present – Honors
Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course studies British literature from the Romantic Period to the present. The honors course provides more content and requires greater intensity and depth of study than the non-honors class; the honors course also requires at least one extra research assignment. 72 hours lecture.

ENGL C235  A/UC/CSU  3.00 Units
Introduction to Shakespeare
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course provides an introduction to Shakespeare’s works, including discussion and analysis of selected plays (tragedies, comedies, and histories) and non-dramatic poetry. Some attention may be given to the historical, artistic, literary, theatrical, and social influences of Renaissance England contributing to the development of Shakespeare’s literary achievements. 54 hours lecture.

ENGL C235H  A/UC/CSU  4.00 Units
Introduction to Shakespeare – Honors
Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course provides an introduction to Shakespeare’s works, including discussion and analysis of selected plays (tragedies, comedies, and histories) and non-dramatic poetry. Some attention may be given to the historical, artistic, literary, theatrical, and social influences of Renaissance England contributing to the development of Shakespeare’s literary achievements. The honors course provides more content and requires greater intensity and depth of study than the non-honors course; the honors course also requires at least one extra research assignment. 72 hours lecture.

ENGL C241  A/UC/CSU  3.00 Units
Survey of American Literature I: Beginnings–1865
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This literature course introduces students to American authors from the Colonial Period to the beginning of the twentieth century. The course emphasizes analyzing texts and studying the intellectual, social, and cultural history of Americans. 54 hours lecture.

ENGL C241H  A/UC/CSU  4.00 Units
Survey of American Literature I: Beginnings–1865 – Honors
Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This literature course introduces students to American authors from the Colonial Period to the beginning of the twentieth century. The course emphasizes analyzing texts and studying the intellectual, social, and cultural history of Americans. The honors course provides more content and requires greater intensity and depth of study than the non-honors course; the honors course also requires at least one extra research assignment. 72 hours lecture.

ENGL C242  A/UC/CSU  3.00 Units
Survey of American Literature II: 1865–Present
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This literature course introduces students to American authors from the 1865 to the present. The course emphasizes analyzing texts and studying the intellectual, social, and cultural history of Americans. 54 hours lecture.

ENGL C242H  A/UC/CSU  4.00 Units
Survey of American Literature II: 1865–Present – Honors
Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This literature course introduces students to American authors from the 1865 to the present. The course emphasizes analyzing texts and studying the intellectual, social, and cultural history of Americans. The honors course provides more content and requires greater intensity and depth of study than the non-honors course; the honors course also requires at least one extra research assignment. 72 hours lecture.

ENGL C245  A/UC/CSU  3.00 Units
Women’s Literature
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course studies the literary achievements of women writers. 54 hours lecture.

**ENGL C245H**  
A/UC/CSU 4.00 Units
Women’s Literature – Honors

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course studies the literary achievements of women writers. The honors course provides more content and requires greater intensity and depth of study than the non-honors class; the honors course also requires at least one extra research assignment. 72 hours lecture.

**ENGL C249**  
A/UC/CSU 3.00 Units
Multi-Ethnic Literature

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course studies the contributions to American literature by African Americans, Latino Americans, Asian Americans, and Native Americans. 54 hours lecture.

**ENGL C249H**  
A/UC/CSU 4.00 Units
Multi-Ethnic Literature – Honors

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course studies the contributions to American literature by African Americans, Latino Americans, Asian Americans, and Native Americans. The honors course provides more content and requires greater intensity and depth of study than the non-honors course; the honors course also requires at least one extra research assignment. 72 hours lecture.

**English As A Second Language**

**ENSL C000**  
X 0.00 Units
Vocational English as a Second Language: Pre-Level
Repeat Status: Course may be taken unlimited times
This course is designed specifically for the Farm Worker Institute for Education and Leadership Development. It is a beginning literacy level ESL multi-skill course for students with no previous English instruction and for those who may be illiterate. The course includes listening and speaking, writing, reading, and grammar development. 120 hour lecture.

**ENSL C001**  
X 0.00 Units
Vocational English as a Second Language: Level 1
Prerequisite: ESL C000, or Qualification by CASAS assessment process
Repeat Status: Course may be taken unlimited times
This course is designed specifically for the Farm Worker Institute for Education and Leadership Development. It is a beginning literacy level ESL multi-skill course for students who are literate but have had little or no previous English instruction. The course includes listening and speaking, writing, reading, and grammar development. 120 hours lecture.

**ENSL C002**  
X 0.00 Units
Vocational English as a Second Language: Level 2
Prerequisite: ESL C002, or Qualification by CASAS assessment process
Repeat Status: Course may be taken unlimited times
This course is designed specifically for the Farm Worker Institute for Education and Leadership Development. It is a high-beginning level ESL multi-skill course for students who have some knowledge of English but may have had little formal instruction. The course includes listening and speaking, writing, reading, and grammar development. 120 hours lecture.

**ENSL C003**  
X 0.00 Units
Vocational English as a Second Language: Level 3
Prerequisite: ESL C002, or Qualification by CASAS assessment process
Repeat Status: Course may be taken unlimited times
This course is designed specifically for the Farm Worker Institute for Education and Leadership Development. It is an intermediate-level ESL multi-skill course for students with previous English instruction. The course includes listening/speaking, writing, reading, grammar review, and vocabulary development. 120 hours lecture.

**ENSL C004**  
X 0.00 Units
Vocational English as a Second Language: Level 4
Prerequisite: ESL C003, or Qualification by CASAS assessment process
Repeat Status: Course may be taken unlimited times
This course is designed specifically for the Farm Worker Institute for Education and Leadership Development.
It is a high-intermediate level ESL multi-skill course for students with previous English instruction. The course includes grammar review, listening/speaking, writing and vocabulary development. 120 hours lecture.

**ENSL C020**  
**Low Beginning English for Speakers of Other Languages I**

Advisory: The use of language other than English as a primary language is advised. Students should be literate in their native language. Also, the ability to speak, understand, read, and write English at a survival level is desirable.  
Repeat Status: Limit 3

This course is beneficial to students at a low-intermediate skill level. Students learn English vocabulary, as well as improve their listening, speaking, reading, and writing skills. Using both spoken and written drills and exercises, students will learn and practice basic English grammar. Needs and skills assessments to the students, instructor determine personal goals, ability to benefit from the class and skill level. 18 hours lecture/54 hours laboratory.

**ENSL C021**  
**Low Beginning English for Speakers of Other Languages II**

Prerequisite: ENSL C020.  
Advisory: The use of language other than English as a primary language is advised. Students should be literate in their native language. Also, the ability to speak, understand, read and write English at a survival level is desirable.  
Repeat Status: Limit 3

This course is beneficial to students that are at a high beginning skill level. Students will learn English vocabularies and improve their listening, speaking, reading, and writing skills. Using both spoken and written drills and exercises, students will learn and practice basic English grammar. Needs and skills assessment will be given to determine personal goals, ability to benefit from the class and skill level. This course can be taken four times. 18 hours lecture/54 hours laboratory.

**ENSL C022**  
**Low Beginning English for Speakers of Other Languages III**

Prerequisite: ENSL C021.  
Advisory: The use of language other than English as a primary language is advised. Students should be literate in their native language. Also, the ability to speak, understand, read, and write English at a survival level is desirable.  
Repeat Status: Limit 3

This course is beneficial to students at a low-intermediate skill level. Students learn English vocabulary, as well as improve their listening, speaking, reading, and writing skills. Using both spoken and written drills and exercises, students will learn and practice basic English grammar. By giving needs and skills assessments to students, instructors determine personal goals, ability to benefit from the class, and skill level. 18 hours lecture/54 hours laboratory.

**Family And Consumer Education**

**FACE C040**  
**SERV SAFE Certification**

Repeat Status: Course may be taken unlimited times

This course is designed to provide the principles of food safety. It fulfills the California SERV SAFE certification requirement. 9 hours lecture.

**Film**

**FILM C211**  
**Hispanic Cinema**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This class studies Hispanic civilization and culture through films, videos and documentaries, as well as varied readings. There is analysis, discussion, and written critique of selected films from Spain, Latin America and the United States. The class covers a variety of cultural issues such as the art, music, history and politics of the Hispanic world. There is an emphasis on issues of multiculturalism and diversity as illustrated by the films and readings on issues such as race, class, gender and immigration issues. Films are subtitled; no knowledge of Spanish is required. 54 hours lecture.

**Fire Technology**

**FIRE C101**  
**Fire Protection Organization**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course provides an overview to fire protection; career opportunities in fire protection and related fields, philosophy and history of fire protection/service; fire loss analysis, organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics;
introduction to fire protection systems; introduction to fire strategy and tactics. 54 hours lecture.

**FIRE C105**  
**A/CSU**  
**3.00 Units**  
**Fire Prevention Technology**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and life-safety education. 54 hours lecture.

**FIRE C107**  
**A/CSU**  
**3.00 Units**  
**Fire & Emergency Services Safety and Survival**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course introduces the basic principles and history related to the National Firefighter Life Safety Initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Advisory: Reading Level 1, Writing Level 1. 54 hours lecture.

**FIRE C111**  
**A/UC/CSU**  
**3.00 Units**  
**Fire Protection Equipment and Systems**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. 54 hours lecture.

**FIRE C115**  
**A/CSU**  
**3.00 Units**  
**Building Construction for Fire Protection**

Repeat Status: Not repeatable

Studies the components of building construction that relate to fire 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 fires. The development and evolution of building and fire codes are studied in relationship to past fires in residential, commercial and industrial occupancies. 54 hours lecture.

**FIRE C121**  
**A/CSU**  
**3.00 Units**  
**Fire Behavior and Combustion**

Repeat Status: Not repeatable

Provides the student with basic information on the fundamentals and scientific principles of fire behavior, combustible materials, extinguishing agents, hazardous and toxic materials, forms of energy and fire prevention/suppression techniques. 54 hours lecture.

**FIRE C131**  
**A/CSU**  
**3.00 Units**  
**Wildland Fire Control**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course provides the employed fireman or Fire Technology major with a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques. 54 hours lecture.

**French**

**FREN C101**  
**A/UC/CSU**  
**5.00 Units**  
**Beginning French I**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This is an introductory course where students learn basic grammar and vocabulary for speaking, reading, understanding and writing at the beginning level as well as learn about the culture and civilization of the French-speaking world. 90 hours lecture.

**Geography**

**GEOG C101**  
**A/UC/CSU**  
**3.00 Units**  
**Physical Geography Lecture**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course covers the study of the earth as an integrated system, earth-sun relationships and motions, weather, climatic types and regions, ecosystems, soils, natural hazards, resource management, landforms, and the ocean. An emphasis is placed on understanding human-land relationships promoting cultural awareness, and examining current world problems from a geographical perspective. 54 hours lecture.

**GEOG C102**  
**A/UC/CSU**  
**1.00 Unit**  
**Physical Geography Laboratory**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This laboratory course provides practical experience in field methods and enhancement of topics such as the earth as an integrated system, earth-sun relationships and motions, weather, climatic types and regions, ecosystems, soils, natural hazards, resource management, landforms, and the ocean. 54 hours laboratory.
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COURSE DESCRIPTIONS

**GEOG C111** A/UC/CSU 4.00 Units
**Physical Geography**
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course covers the study of the earth as an integrated system, earth-sun relationships and motions, weather, climatic types and regions, ecosystems, soils, natural hazards, resource management, landforms, and the ocean. An emphasis is placed on understanding human-land relationships, promoting cultural awareness, and examining current world problems from a geographical perspective. The laboratory portion of the course covers field techniques and provides practical examples that enhance and reinforce topics covered in the lecture. 54 hours lecture/54 hours laboratory.

**GEOG C131** A/UC/CSU 3.00 Units
**World Regional Geography**
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
Aspects of physical and cultural geography such as land-forms, climate, vegetation, soils, natural resources, demography, political and economic organization, and urbanization are applied to various world regions. An emphasis is placed on understanding human-land relationships, promoting cultural awareness, and examining current world problems from a geographical perspective. 54 hours lecture.

**Health Careers**

**HCRS C055** A 5.00 Units
**Certified Nursing Assistant**
Repeat Status: Limit 2
This course develops the skills necessary to pass the state mandated test to become a Certified Nurse’s Aide. Topics include legal and ethical responsibilities, bedside care, moving and positioning a resident, general observations of a resident’s condition and responsibilities related to care of the elderly resident. Practical bedside skills are practiced by the student in the nursing skills lab. The student gains experience in a long-term care facility. The student must pass the course with a grade of “C” or better. 54 hours lecture/108 hours laboratory.

**HCRS C057** A 1.00 Unit
**Home Health Aide**
Limitations on Enrollment: Must be a Certified Nursing Assistant
Repeat Status: Not repeatable
This course is designed to prepare the student to work with clients in a home setting doing hands on patient care. This course focuses on the skills for basic care of residents who need assistance with activities of daily living, including bathing, hygiene measures, transfers, bed making, cleaning, and homemaking tasks. The State Department of Licensing requires a grade of C or better. 20 hours lecture/20 hours laboratory.

**HCRS C06** A 3.00 Units
**Administrative Medical Assisting – Receptionist**
Advisory: Reading Level 2, Writing Level 3, Math Level 4
Repeat Status: Not repeatable
This course presents approaches for working and communicating in an administrative or front office setting of a medical environment. Topics include professionalism and responsibilities of personnel, law and ethics, appointments and scheduling, environmental safety, office communication techniques, and an overview of medical and surgical asepsis. Office communications will highlight verbal interactions and non verbal techniques, such as scheduling, correspondence, record-keeping, and filing systems. Upon completion of the course, the student will be able to seek employment in a medical front office as a receptionist. 54 hours lecture.

**HCRS C062** A 6.00 Units
**Administrative Medical Assisting – Financial Management and Insurance**
Advisory: Reading Level 2, Writing Level 3, Math Level 4
Repeat Status: Not repeatable
This course presents a thorough discussion of office finance management and insurance. Insurance coding and billing prepares the student to undertake the details necessary for implementing the specialized insurance forms utilized in the modern healthcare system. Lecture and practice exercises using assorted systems of billing and coding combine to provide the student with experience using numerous health insurance claim forms. Included in the course insurance exercises are Blue Cross and Blue Shield, Medicaid-MediCal, CHAMPUS, Unemployment and Worker’s Compensation, and Health Maintenance Organizations. 108 hours lecture.

**HCRS C064**  
**A**  
**7.00 Units**  
**Clinical Medical Assisting**

Prerequisite: HCRS C150  
Advisory: Reading Level 2, Writing Level 2, Math Level 3  
Repeat Status: Not repeatable
This course is designed to provide basic education and training for the individual who is interested in working as a Clinical Medical Assistant in a medical or clinical back office. Topics include basic medical and surgical aseptic techniques, principles of nutrition, pharmacology, and medication administration. Common office practices, such as vital signs and assisting with routine exams and procedures, are discussed and practiced in the Skills Lab. An overview of common diagnostic laboratory tests is presented. Emphasis is placed on client education and the role of the medical assistant. 108 hours lecture/54 hours laboratory.

**HCRS C068**  
**A**  
**3.00 Units**  
**Medical Assistant Clinical Externship**

Prerequisite: HCRS C061, HCRS C062, HCRS C064, HCRS C150  
Repeat Status: Not repeatable
The Clinical Externship is a practical application of the theory and skills learned in the classroom and lab. The student participates in office or clinic patient care under the direct supervision of the physician and the office manager and the indirect supervision of the classroom instructor. 160 hours work experience.

**HCRS C070**  
**A**  
**0.50 Units**  
**CPR for the Healthcare Provider**

Repeat Status: Course may be taken unlimited times  
This is a Healthcare Provider – CPR Course that meets or exceeds the current American Heart Association standards. The course provides training in emergency treatment for life-threatening cardiopulmonary arrest, airway and breathing management, and foreign body obstructed airway for all age groups. This course also includes one and two rescuer CPR, use of barrier devices, AED use and the prevention of disease transmission. Note: This course is cross listed with EMTC C070. 10 hours lecture.

**HCRS C075**  
**A**  
**2.00 Units**  
**Principles of Intravenous Therapy and Blood Withdrawal**

Limitations on Enrollment: Must have a current California LVN license or senior standing in a LVN Program, or Interim Permittee status  
Repeat Status: Not repeatable
Principles of Intravenous Therapy and Blood Withdrawal is a course consisting of 27 hours of lecture and 9 hours of clinical experience. The course is designed to enable the Licensed Vocational Nurse to safely initiate and maintain intravenous therapy in a clinical setting. LVN’s successfully completing the course will be certified by the California Board of Vocational Nurse Examiners to initiate and superimpose intravenous fluids. 27 hours lecture/9 hours laboratory.

**HCRS C101**  
**A/CSU**  
**8.00 Units**  
**Vocational Nursing: Medical-Surgical Nursing I**

Prerequisite: BIOL C121 and BIOL C122, or BIOL C251 and BIOL C255; PSYC C101 or PSYC C101H; HCRS C150; HCRS C055; CSCI C070  
Co-requisite: HCRS C111  
Advisory: IC C075, Math Level 2  
Repeat Status: Not repeatable
This course covers fundamentals of nursing including nursing theory and process, basic data collection, assessment, legal and ethical considerations, cultural diversity, geriatrics, nutrition and pharmacology. This course is approved by the Board of Vocational Nursing and Psychiatric Technicians (BVNPT) and adheres to all state mandated guidelines. 144 hours lecture.

**HCRS C102**  
**A/CSU**  
**8.00 Units**  
**Vocational Nursing: Medical-Surgical Nursing 2**

Prerequisite: HCRS C101, HCRS C111  
Co-requisite: HCRS C112  
Repeat Status: Not repeatable
The second semester of the Vocational Nursing Program emphasizes the nursing care of a client in an acute care setting, an ambulatory care setting, and a public health facility. Nursing theory focuses on the care of the client with cardiovascular, lymphatic, respiratory, and genitourinary disorders. Theory topics and nursing responsibilities for the normal aspects of maternal child care in obstetrics and pediatrics are also presented. 144 hours lecture.
HCRS C106  A/CSU  0.50 Units
First Aid/Cardiopulmonary Resuscitation/Automated External Defibrillator
Repeat Status: Course may be taken unlimited times
This course teaches current First Aid instruction for “Schools and the Community” through discussion, demonstrations, and practical experiences. It includes Emergency Action Steps; breathing and cardiac problem recognition and care; CPR (Cardiopulmonary Resuscitation) for adult, child, infant; AED (Automated External Defibrillator) for adult and child, and choking for conscious and unconscious person; wound care; bandaging; shock; poisoning; local poisonous plants and animals; burns; bone and joint injuries including splinting; diabetic emergencies; temperature extremes; and other sudden illnesses. It may also include disaster preparation and family planning for local emergencies. Note: This course is cross listed with EMTC C106 and HSCI C105. 10 hours lecture.

HCRS C111  A/CSU  6.00 Units
Vocational Nursing: Clinical Practice 1
Co-requisite: HCRS C101, HCRS C141
Repeat Status: Not repeatable
Clinical Practice I presents the foundation of nursing care for a client in a long-term and acute-care facility. Students practice fundamental clinical skills in the Nursing Skills Lab. Upon successful completion of Fundamentals, the student focuses on the care of a resident with uncomplicated needs in a long-term facility. During the last weeks of the semester, basic clinical skills are advanced as the student begins clinical experience in an acute care facility. 324 Other hours.

HCRS C112  A/CSU  6.00 Units
Vocational Nursing: Clinical Practice 2
Prerequisite: HCRS C101, HCRS C111
Co-requisite: HCRS C102
Repeat Status: Not repeatable
Clinical Practice 2 focuses on the intermediate clinical application of nursing theory in the medical-surgical areas of cardiovascular, lymphatic, respiratory, and genitourinary disorders. Clinical experiences for the specialty areas of normal obstetrics, neonatal, and pediatrics, including growth and development, are presented in an acute care facility and/or an ambulatory care center. A community health care agency is utilized to augment experiences. 324 Other hours.

HCRS C121  A/CSU  3.00 Units
Nutrition
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course is designed to develop an understanding of the principles of human nutrition, including historical development, underlying physical, mental and emotional health, current world nutrition problems, nutrients and their utilization by the body, and nutritional needs throughout the life cycle. Recent developments in nutrition, food fads and fallacies, and informational nutritional resources will be addressed. 54 hours lecture.

HCRS C140  A/CSU  3.00 Units
Introduction to Health Care
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course introduces Healthcare Programs to students who have an interest in pursuing a career in health care. This course covers the fundamentals common to all health care occupations. Topics included are appropriate for occupations that involve direct patient care, such as nursing and dental assisting, as well as those that provide support services, such as health information technology and pharmacy technician. 54 hours lecture.

HCRS C150  A/CSU  3.00 Units
Medical Terminology for the Health Professional
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course is designed to familiarize the student with the language of medicine. The components of medical terminology are highly beneficial for any individual with a healthcare employment objective. The course presents the components of medical works including word roots, combining forms, suffixes, and prefixes. Using medical terminology as a focal point, the systems of the body are discussed. 54 hours lecture.

HCRS C160  A/CSU  3.00 Units
Rehabilitative Career Choices
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course is designed for individuals interested in various allied health occupations in the field of rehabilitative careers. The student will explore basic concepts involved in the study of basic rehabilitative career opportunities. This course will cover scientific principles and medical terminology, systems of health and healing, chiropractic assisting, massage therapy, physical therapy, sports medicine assisting, personal fitness training and administrative and job seeking skills for the physical medicine worker. 54 hours lecture.

HCRS C201  A/CSU  8.00 Units
Vocational Nursing: Medical-Surgical Nursing 3
Prerequisite: HCRS C102, HCRS C112
The final semester of the Vocational Nursing Program emphasizes care of a client in an acute care setting, ambulatory care setting, and a home health setting. Nursing theory focuses on the care of the client with endocrine, gastrointestinal, orthopedic, neurosensory, and integumentary disorders. Theory topics and nursing responsibilities related to leadership, supervision, and rehabilitation are also discussed. 144 hours lecture.

HCRS C211  A/CSU  6.00 Units
Vocational Nursing: Clinical Practice 3
Prerequisite: HCRS C102, HCRS C112
Co-requisite: HCRS C201
Repeat Status: Not repeatable
Clinical Practice 3 focuses on the clinical application of nursing theory in the medical-surgical areas of gastrointestinal, endocrine, musculoskeletal, integumentary, and neurosensory disorders. Professional skills utilizing concepts in leadership and supervision are included as part of the senior nursing student's semester. In addition to acute medical-surgical nursing experience, the student has experience in a home health agency and working as a supervised team leader in a long-term care facility. 324 Other hours.

HCRS C230  A/CSU  3.00 Units
Pharmacology for the Health Professional
Advisory: Reading Level 1, Writing Level 2, Math Level 4
Repeat Status: Not repeatable
This course presents the components of pharmacology including techniques of administration, dosage calculations, foundations of pharmacology, patient education, health promotion, and a detailed overview of each drug class and commonly used drugs by body system. Pharmacology is an integral part of every aspect of health careers and this course is recommended for any individual with a Health Career objective. 54 hours lecture.

HCRS C240  A/CSU  3.00 Units
Nutrition and Diet Therapy for Health Professionals
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course is designed to provide the student with an understanding of the fundamentals of nutrition related to the promotion and maintenance for optimal health. Practical applications and treatment of nutrition related pathologies are emphasized. Students will be introduced to basic scientific knowledge to enable them to evaluate nutritional issues discussed in the mass media. This course presents case studies with care plans and clinical analysis questions for the healthcare provider. It also incorporates, standardized nursing terminology of NANDA, NIC, and NOC. 54 hours lecture.

HCRS C241  A/CSU  1.00 Unit
Nursing Learning Laboratory
Limitations on Enrollment: Entrance into the ADN program through Bakersfield College
Repeat Status: Limit 3
This course is designed as an on-campus laboratory for self-paced practice and mastery of nursing skills necessary for providing safe client care throughout the Registered Nursing Program in conjunction with Bakersfield College. It provides instructional guidance to assist students to refine newly acquired skills and develop the competency level expected of entry level registered nurses. Multimedia and computer assisted instructional materials which support the current semester learning objectives will be available. Subsequent enrollment in additional semesters will offer the student the opportunity for additional skill and competency development within the subject matter. 54 hours laboratory.

HCRS C245  A/CSU  3.00 Units
Complementary and Alternative Therapy
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course is designed to provide students with an overview of the major alternative health and complementary medicine (AHCM) modalities prominent in the U.S. and their role in health care delivery systems. 54 hours lecture.

HCRS C250  A/CSU  3.00 Units
Cultural Diversity and Health Care
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course is designed to familiarize the students with the fundamentals of cultural diversity. Cultural diversity is an integral part of every aspect of health careers. This course is encouraged for any individual with a health career objective. The student will explore cross cultural and family theory to analyze forms of cultural diversity including gender, age, and family form. The student will analyze how cultural diversity affects health/illness dynamics and how recognition of ethnocentrism and bias can help improve health care delivery. 54 hours lecture.

HCRS C255  A/CSU  3.00 Units
Basic Cardiac Rhythm Interpretation
Advisory: Reading Level 1
Repeat Status: Not repeatable
This course is designed to enable students to interpret basic cardiac rhythms in health care related settings. Heart anatomy, physiology, dysrhythmias relating to atrial and ventricular dysfunction, basic electrical conduction disorders and treatment plans are presented. 54 hours lecture.

**HCRS C260**  
A/CSU 3.00 Units  
Ethics for the Health Professional  
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
This course is designed to explore the theories, models and principles that serve as guides for ethical behavior within the healthcare content. Ethics is an integral part of every aspect of health careers and this course is encouraged for any individual with a health career objective. The student will explore the complexities created by science and technological advances, the variety of health care settings, and the diversity of patients in their care, all while emphasizing the importance of principled behavior in personal and professional situations. Global issues such as health policy, economics, social, gender, transcultural and spiritual considerations will be addressed. 54 hours lecture.

**Health Science**

**HSCI C101**  
A/UC/CSU 3.00 Units  
Principles of Health Education  
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
This course provides a fundamental understanding of how the body functions. It involves the study of factors affecting the physical and mental well-being of individuals within the context of the individual, community, society and environment. There is also discussion of heart disease, cancer, smoking, nutrition and physical fitness, human sexuality (reproduction, child birth, and contraception), sexually transmitted diseases, communicable diseases, alcohol and drug abuse. 54 hours lecture.

**HSCI C105**  
A/CSU 0.50 Units  
First Aid/Cardiopulmonary Resuscitation/Automated External Defibrillator  
Repeat Status: Course may be taken unlimited times  
This course teaches current First Aid instruction for “Schools and the Community” through discussion, demonstrations, and practical experiences. It includes Emergency Action Steps; breathing and cardiac problem recognition and care; CPR (Cardiopulmonary Resuscitation) for adult, child, infant; AED (Automated External Defibrillator) for adult and child, and choking for conscious and unconscious person; wound care; bandaging; shock; poisoning; local poisonous plants and animals; burns; bone and joint injuries including splinting; diabetic emergencies; temperature extremes; and other sudden illnesses. It may also include disaster preparation and family planning for local emergencies. Note: This course is cross listed with EMTC C106 and HCRS C106. 10 hours lecture.

**History**

**HIST C103**  
A/UC/CSU 3.00 Units  
Western Civilization I  
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course covers the growth of European civilization. Social, political, and cultural developments are integrated with the introduction of ideas and institutions basic to the understanding of one’s own heritage. This course also covers the development of Western Civilization from the earliest times to the close of the Middle Ages. 54 hours lecture.

**HIST C103H**  
A/UC/CSU 4.00 Units  
Western Civilization I – Honors  
Limitation on Enrollment: Acceptance for the Honors program or eligibility for this honors course as determined in consultation with the instructor  
Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course covers the growth of European civilization. Social, political, and cultural developments are integrated with the introduction of ideas and institutions basic to the understanding of one’s own heritage. This course also covers the development of Western Civilization from the earliest times to the close of the Middle Ages. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

**HIST C104**  
A/UC/CSU 3.00 Units  
Western Civilization II  
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
This course covers the growth and development of European Civilization from the Renaissance to the present, integrating social, political, and cultural developments of European and the Western heritage. 54 hours lecture.
**COURSE DESCRIPTIONS**

**HIST C104H**  A/UC/CSU  4.00 Units  
*Western Civilization II – Honors*

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course covers the growth and development of European Civilization from the Renaissance to the present, integrating social, political, and cultural developments of European and the Western heritage. Honors students will meet one extra hour weekly to discuss and evaluate selected primary source materials. 72 hours lecture.

**HIST C131**  A/UC/CSU  3.00 Units  
*History of United States I*

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

The course examines the social, political, economic and cultural history of the United States from colonial times to Reconstruction. The study of selected topics, such as American institutions and Constitutional development, is stressed in the course. 54 hours lecture.

**HIST C131H**  A/UC/CSU  4.00 Units  
*History of the United States I – Honors*

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

The course examines the social, political, economic and cultural history of the United States from colonial times to Reconstruction. The study of selected topics, such as American institutions and Constitutional development, is stressed in the course. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

**HIST C132**  A/UC/CSU  3.00 Units  
*History of United States II*

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

The course examines the social, political, economic and cultural history of the United States from Reconstruction to the present. The study of selected topics, such as American institutions and Constitutional development, is stressed in the course. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

**HIST C132H**  A/UC/CSU  4.00 Units  
*History of the United States II – Honors*

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

The course examines the social, political, economic and cultural history of the United States from Reconstruction to the present. The study of selected topics, such as American institutions and Constitutional development, is stressed in the course. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

**HIST C209**  A/UC/CSU  3.00 Units  
*History of Mexico*

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

The course covers Mexican history from the earliest times to the present. It includes an analysis of the social, cultural, political, and economic aspects of the Mexican past. 54 hours lecture.

**HIST C218**  A/UC/CSU  3.00 Units  
*California History*

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

The course covers the political, economic, social and cultural development of California from the earliest times to the present. 54 hours lecture.

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**Human Services**

**HMSV C101**  A/CSU  3.00 Units  
*Introduction to Human Services*

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

The purpose of this course is to introduce students to the human service professions and their role in helping people to cope with the problems of living. The course provides a historical overview and contemporary theories, as well as description of service delivery models of human services, and will help the student to understand the client as a whole person in a specific context. The course will also address issues of competence, professionalism, and ethics in human services. 54 hours lecture.
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HMSV C102  A/N/CSU  3.00 Units
Cultural Competence in Human Services
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course explores the themes of dominant culture and sub-cultures in relations to human services, with special emphasis on the cultural complexities of individuals and communities and culturally skillful interventions. 54 hours lecture.

HMSV C103  A/N/CSU  3.00 Units
Preparation for Field Work in Human Services
Prerequisite: HMSV C101
Repeat Status: Limit 3
In this class students integrate theory about human services occupations into actual workplace practices by role-playing workplace situations, by interviewing people working in different human services settings, by discussing and analyzing workplace situations in order to practice professional responses. After taking this course, students will be prepared for internship in a human services work setting. 54 hours lecture.

HMSV C104  A/N/CSU  4.00 Units
Field Work in Human Services
Prerequisite: HMSV C103
Repeat Status: Not repeatable
This course is intended to provide the student with the complete experience of working in human services setting. Students are required to pass drug screening and to have a life scan at their own expense, and may be required to fulfill other site specific requirements before beginning the field work experience. Students will have the opportunity to apply information, develop and practice skills, participate in a supervisory relationship, receive performance evaluation, and provide feedback to other human services trainees. 36 hours lecture/108 hours field work experience.

HMSV C113  A/CSU  3.00 Units
Intervention Skills in Human Services
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
The purpose of this course is to introduce the student to assessment and treatment skills used in the helping professions. Topics will include: the helping interview, assessment, goal setting, cognitive interventions, and behavior management techniques. 54 hours lecture.

In this course students are introduced to different models of case management, in the Human Services Field, the core skills which make up case management, the decision making processes of the case management, and the role of the case manager as a human services worker and collaborator with other persons, human services agencies and organizations. 54 hours lecture.

Industrial Safety

INSF C070  A  1.00 Unit
Occupational Safety and Health
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course covers issues related to Occupational Health and Safety and includes required instruction to fulfill the training requirements for the Occupational Safety and Health Administration (OSHA) 10 Construction Outreach Training Program. Successful students will receive a course completion card at the end of the course. 18 hours lecture.

Industrial Technology

INDT C056  A  4.00 Units
Technical Math for Trades
Prerequisite: MATH C050
Repeat Status: Not repeatable
In this course students will use mathematical concepts including general mathematics, algebra, areas and volumes, measurement, along with geometric and trigonometric functions, to solve problems related to an industrial/technical environment. This course is cross listed with MATH C056. 72 hours lecture.

INDT C081  A  1.00 Unit
New Surface Miner Safety Training
Repeat Status: Course may be taken unlimited times
Introduction and understanding of surface mine safety and mandatory health training as required by the Mine, Safety and Health Administration for the inexperienced surface miner. Additional site and task training will be required to be provided by mine operator or contractor. 24 hours lecture.

INDT C082  A  0.50 Units
Newly Employed Experienced Surface Miner Safety Training
Limitations on Enrollment: Have not attended MSHA approved annual refresher in 3 years, but completed MSHA approved new miner training for surface miners, or have received training acceptable to MSHA from
a state agency, and if you have at least 12 months of surface mining experience.

Repeat Status: Course may be taken unlimited times

Students review of surface mine safety and mandatory health training as required by the Mine, Safety and Health Administration. Additional site and task training will be provided by mine operator or contractor. 8 hours lecture.

**INDT C083**  
A 0.50 Units  
Annual Refresher Training for the Surface Miner Safety Training

Limitations on Enrollment: Completed MSHA-approved new miner training for surface miners or have received training acceptable to MSHA from a state agency, in the last 12 months, and if you have at least 12 months of surface mining experience.

Repeat Status: Course may be taken unlimited times

Annual refresher training of the surface miner in mandatory safety and health training as required by the Mine Safety Health Administration. Additional site and task training will be required to be provided by the mine operator or contractor. 8 hours lecture.

**INDT C089**  
A 0.50 Units  
Special Topics in Industrial Technology

Repeat Status: Limit 3

In this course, students learn concepts and develop skills and techniques in the selected topic. This course does not fulfill core or elective requirements for certificates and degrees in Industrial Technology. 9 hours lecture.

**INDT C090**  
A 1.00 Unit  
Special Topics in Industrial Technology

Repeat Status: Limit 3

In this course, students learn concepts and develop skills and techniques in the selected topic. This course does not fulfill core or elective requirements for certificates and degrees in Industrial Technology. 9 hours lecture/27 hours laboratory.

**INDT C091**  
A 1.00 Unit  
Special Topics in Industrial Technology

Repeat Status: Limit 3

In this course, students learn concepts and develop skills and techniques in the selected topic. This course does not fulfill core or elective requirements for certificates and degrees in Industrial Technology. 18 hours lecture.

**INDT C092**  
A 2.00 Units  
Special Topics in Industrial Technology

Repeat Status: Limit 3

In this course, students will learn concepts and develop skills and techniques in the selected topic. This course does not fulfill core or elective requirements for certificates and degrees in Industrial Technology. 18 hours lecture/54 hours laboratory.

**INDT C093**  
A 2.00 Units  
Special Topics in Industrial Technology

Repeat Status: Limit 3

In this course, students will learn concepts and develop skills and techniques in the selected topic. This course does not fulfill core or elective requirements for certificates and degrees in Industrial Technology. 36 hours lecture.

**INDT C094**  
A 3.00 Units  
Special Topics in Industrial Technology

Repeat Status: Limit 3

In this course, students will learn concepts and develop skills and techniques in the selected topic. This course does not fulfill core or elective requirements for certificates and degrees in Industrial Technology. 54 hours lecture.

**INDT C108**  
A/CSU 3.00 Units  
Reading Technical Drawings

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course provides students with the opportunity to develop skills in reading and interpreting technical drawings used in an industrial environment. Principles of technical drawing are introduced along with standard symbols and abbreviations found in industrial drawings, schematics, and diagrams. Students produce technical sketches without the use of instruments. This course is cross listed with DRFT C108. 54 hours lecture.

**Information Competency**

**IC C075**  
A 1.00 Unit  
Introduction to Library Research and Bibliography

Advisory: CSCI C070, Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course presents the fundamentals of the research process and documentation styles. The student is introduced to the organization of information in the library setting and access through the use of online
catalogs. The use of the World Wide Web is covered with particular emphasis on evaluation of information contained in web pages. The course covers the use of printed and electronic reference materials and discusses legal and ethical issues of intellectual property including copyright, fair use, and plagiarism. 18 hours lecture.

Interdisciplinary Studies

INSt C004  X  0.00 Units
Supervised Tutoring
Repeat Status: Course may be taken unlimited times
This class provides support for students who need further assistance in their academic skills to succeed in a particular class. 640 hours open laboratory.

INSt C210  A/UC/CSU  3.00 Units
Diversity and Film
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
Through the use of films, documentaries and analytical essays students use critical reasoning skills to discover how the structures of race, class, gender and similar constructs have shaped and formed our society and our culture. There is analysis, discussion, and written critique of selected films and readings. This satisfies the Cerro Coso diversity requirement. Note: This course is cross listed with SOCI C210. 54 hours lecture.

INSt C220  A/UC/CSU  3.00 Units
Perspectives on Race, Class and Gender
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
Students will use critical reasoning skills to discover how the structures of race, class, gender and similar constructs have shaped and formed our society. The class will cover a range of topics from the philosophical origins of racist thought to an exploration of current buzzwords such as diversity and multiculturalism. Through multiple and varied readings and classroom discussion we will attempt to discover the interrelatedness of concepts such as race, class and gender and the roots and future of our “melting pot” society. Note: This course is cross listed with SOCI C220. 54 hours lecture.

Latin

LATN C001  X  0.00 Units
Latin for Lifelong Learners
Repeat Status: Course may be taken unlimited times
This course is for students who wish to deepen and intensify their pursuit of special areas of study within the discipline. Topics are chosen based upon student interest within languages and could include the study of prose literature, culture, history, advanced grammar or other similar topics. This course does not fulfill core or elective requirements for certificates or degrees in languages. 36 hours lecture.

LATN C101  A/UC/CSU  4.00 Units
Elementary Latin I
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course covers the basic structures and vocabulary for understanding reading, writing, and speaking Latin. The class will include pronunciation, comprehension, and structure of the language. 72 hours lecture.

LATN C102  A/UC/CSU  4.00 Units
Elementary Latin II
Prerequisite: LATN C101
Repeat Status: Not repeatable
This course continues coverage of the basic structures and vocabulary for understanding reading, writing and speaking Latin. 72 hours lecture.

LATN C201  A/UC/CSU  4.00 Units
Intermediate Latin I
Prerequisite: LATN C102
Repeat Status: Not repeatable
This course covers intermediate level structures and vocabulary development for reading, writing, and speaking Latin. 72 hours lecture.

LATN C202  A/UC/CSU  4.00 Units
Intermediate Latin II
Prerequisite: LATN C201
Repeat Status: Not repeatable
This course conducts a detailed and intensive reading of books I, II, IV and VI of the Aeneid. A running review of basic grammar structures is also a part of the class. 72 hours lecture.

Machine Tool Technology

MCTL C107  A/CSU  2.00 Units
Basic Hand Tools
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course prepares students to identify and properly use a variety of hand tools in an industrial environment. Emphasis is placed on safety and the use of the correct
tool for a specific task. Students are given hands-on experience with many of the tools during practical lab exercises and demonstrations. 18 hours lecture/54 hours laboratory.

**MCTL C111** A/CSU 3.00 Units  
**Beginning Machine Shop**
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

A basic introduction to Machine Shop theory and practice including setup and operation of the lathe, drill press, horizontal and vertical milling machines, metal band saw and pedestal grinder. The use of hand tools and precision measuring tools, layout techniques, and tool sharpening are studied in practical shop applications. 36 hours lecture/54 hours laboratory.

**MCTL C112** A/CSU 3.00 Units  
**Intermediate Machine Shop**
Prerequisite: MCTL C111  
Repeat Status: Not repeatable

This course provides students with skills in proper and safe use of lathes and milling machines. Students maintain and use comparison and angularity measuring tools and produce parts of moderate complexity to close tolerances. 36 hours lecture/54 hours laboratory.

**MCTL C211** A/CSU 3.00 Units  
**Advanced Machine Shop**
Prerequisite: MCTL C112  
Repeat Status: Not repeatable

This course provides students with skills in the safe and proper use of precision grinders and band machines. Students also use computer numerical control systems, and gain an understanding of automated manufacturing. 36 hours lecture/54 hours laboratory.

**MCTL C212** A/CSU 3.00 Units  
**Advanced Machine Shop/Tool Problems**
Prerequisite: MCTL C211  
Repeat Status: Not repeatable

This course provides students with an understanding of quality control techniques in manufacturing. Students describe characteristics of metals and finishes, as well as other manufacturing processes. In this advanced course, students solve a complex manufacturing design problem and produce a product, using appropriate tools and techniques. 36 hours lecture/54 hours laboratory.

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**Mathematics**

**MATH C020** P 4.00 Units  
**Basic Arithmetic Skills**
Repeat Status: Not repeatable

Students perform the basic operations of addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. Students work with the concepts of ratios and percents. 72 hours lecture.

**MATH C040** P 4.00 Units  
**Pre-Algebra**
Prerequisite: MATH C020  
Repeat Status: Not repeatable

This course covers basic arithmetic, introductory concepts in algebra, and problem solving techniques. Specific topics include addition, subtraction, multiplication and division of signed numbers, percentage, and applications of these skills. The course introduces algebraic concepts, including algebraic operations of polynomials, solving equations, formulas, and an introduction to solving word problems. 72 hours lecture.

**MATH C050** A 4.00 Units  
**Elementary Algebra**
Prerequisite: MATH C040  
Repeat Status: Not repeatable

This course covers the fundamental algebraic concepts and mathematical processes: first degree equations, special products and factoring, ratios, proportions, radicals, exponents, simultaneous linear equations, quadratic equations, and graphing linear and quadratic functions. 72 hours lecture.

**MATH C055** A 4.00 Units  
**Intermediate Algebra**
Prerequisite: MATH C050  
Repeat Status: Not repeatable

Intermediate Algebra expands on the skills learned in Elementary Algebra and prepares the student for more advanced work in mathematics and science. The focus will be on exponents, factoring, solving linear and quadratic equations, systems of equations, algebraic fractions, graphs of linear and quadratic equations and inequalities, radicals determinants, function notation, and the exponential and logarithmic functions. 72 hours lecture.

**MATH C056** A 4.00 Units  
**Technical Math for Trades**
Prerequisite: MATH C050  
Repeat Status: Not repeatable
In this course students will use mathematical concepts including general mathematics, algebra, areas and volumes, measurement, along with geometric and trigonometric functions, to solve problems related to an industrial/technical environment. This course is cross listed with INDT C056. 72 hours lecture.

**MATH C057**  A  4.00 Units  
**Geometry**

Prerequisite: MATH C050  
Advisory: Math Level 2  
Repeat Status: Not repeatable

This course provides a thorough coverage of Euclidean geometry including constructions, parallel lines, congruent triangles, similar triangles, polygons, circles, solid geometry, analytic geometry and transformations. The concept of proof is developed through deductive and inductive reasoning. Students will also be introduced to higher dimensions and non-Euclidean geometries. 72 hours lecture.

**MATH C101**  A/CSU  3.00 Units  
**Survey of Mathematical Concepts**

Prerequisite: MATH C050 or one year of high school algebra with a grade of “C” or better.  
Advisory: Math Level 2  
Repeat Status: Not repeatable

Students will explore the history of mathematics, the relationship of mathematics to modern society, elementary theory of probability and statistics, functions and their graphs, number theory, and logic. 54 hours lecture.

**MATH C121**  A/UC/CSU  4.00 Units  
**Elementary Probability and Statistics**

Prerequisite: MATH C055  
Repeat Status: Not repeatable

This course covers data analysis using descriptive and inferential statistics. Graphs and computations include measures of central tendency and dispersion, correlation and regression, and presentation of data on a histogram, scatter plot, box plot, and the normal curve. Probability concepts include those for discrete and continuous random variables. Sampling and hypothesis testing are covered for means and variances. 72 hours lecture.

**MATH C121H**  A/UC/CSU  5.00 Units  
**Elementary Probability and Statistics – Honors**

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.  
Prerequisite: MATH C055  
Repeat Status: Not repeatable

Elements of descriptive statistics, measures of central tendency, dispersion and presentation of data. Concepts of probability, random variables and normally distributed random variables. Sampling error, sampling processes and the distribution of sample means. Hypothesis testing of means and proportions for one and two populations. Linear regression, the least squares criterion, descriptive and inferential methods using linear regression. One and two way analysis of variance. The honors section provides more content and requires greater intensity and depth of study than the non-honors class. Acceptance for the honors program or eligibility for this honors course as determined in consultation with the instructor. 90 hours lecture.

**MATH C130**  A/UC/CSU  4.00 Units  
**Finite Mathematics**

Prerequisite: MATH C055  
Repeat Status: Not repeatable

Finite Mathematics is designed for students majoring in Business/Economics, Computer Information Systems, and Social Sciences. Topics to be covered include: matrices, linear programming, mathematics of finance, sets and probability, descriptive statistics, Markov chains, and game theory. 72 hours lecture.

**MATH C131**  A/CSU  4.00 Units  
**Business Calculus**

Prerequisite: MATH C055  
Repeat Status: Not repeatable

This course emphasizes the concepts of differential calculus and integral calculus as they relate to business and economics. The course integrates rates of change, interest formulas, concepts of demand and elasticity, as well as exponential and logarithmic applications. 72 hours lecture.

**MATH C141**  A/UC/CSU  4.00 Units  
**College Algebra**

Prerequisite: MATH C055  
Repeat Status: Not repeatable

This pre-calculus course is an intensive study of algebraic functions and relations and their graphical representations, exponential and logarithmic functions and their applications, theory of equations, matrices, sequences, series, mathematical induction, the binomial theorem, and an introduction to the theory of limits. 72 hours lecture.

**MATH C142**  A/CSU  4.00 Units  
**Trigonometry**

Prerequisite: MATH C055  
Repeat Status: Not repeatable

Trigonometry is an intensive study of trigonometric
and inverse trigonometric functions, the graphical representations of these functions, solving trigonometric equations, verifying identities, solving triangles in the plane and on the sphere, complex numbers and De Moivre's theorem. Topics in analytic geometry in two and three dimensions, such as polar coordinates and vectors, and their applications are also covered. A symbolic manipulation processor or a graphing calculator is strongly recommended. 72 hours lecture.

**MATH C151**  A/UC/CSU  5.00 Units

*Analytic Geometry and Calculus I*

Prerequisite: MATH C141, MATH C142
Repeat Status: Not repeatable

This course provides the student with a good foundation in differential and integral calculus with emphasis on both basic skills and applications. Topics covered include functions; limits; derivatives of polynomial, trigonometric, parametric, and implicit functions; applications of differentiation; the indefinite integral; the definite integral; applications of the definite integral. 90 hours lecture.

**MATH C152**  A/UC/CSU  5.00 Units

*Analytic Geometry and Calculus II*

Prerequisite: MATH C151
Repeat Status: Not repeatable

This course is a continuation of Analytic Geometry and Calculus I, extending the skills of differentiation and integration by learning new techniques and working with the transcendental functions. Other major topics include sequences, series, polar coordinates and parameterization of plane curves. 90 hours lecture.

**MATH C251**  A/UC/CSU  5.00 Units

*Analytic Geometry and Calculus III*

Prerequisite: MATH C152
Repeat Status: Not repeatable

This course is a continuation of Analytical Geometry and Calculus II, extending the skills of differentiation and integration by learning new techniques and working with partial derivatives and double and triple integrals. Other major topics include cylindrical and spherical coordinates, quadric surfaces, vector functions, vector analysis, Green's theorem and Stoke's theorem. 90 hours lecture.

**MATH C255**  A/UC/CSU  4.00 Units

*Ordinary Differential Equations*

Prerequisite: MATH C251
Advisory: A computer algebra system or graphing calculator and basic computer skills are strongly recommended
Repeat Status: Not repeatable

This course provides students with a foundations of differential equations of change, motion, and growth within chemical, physical, biological, and business systems with problem solving and applications. Students are introduced to modeling using mathematical software used in industry to solve complex problems. First, second, and higher order differential equations including Euler’s Method, Eigenvalues, Numerical Methods, Nonlinear Systems, and La Place Transforms are covered. 72 hours lecture.

**MATH C257**  A/UC/CSU  4.00 Units

*Linear Algebra*

Prerequisite: MATH C152
Repeat Status: Not repeatable

This course will cover the following topics: systems of linear equations; matrices; n-dimensional real vector spaces; general vector spaces; linear transformations; eigenvalues and eigenvectors; and applications of the above topics. 72 hours lecture.

**Music**

**MUSC C061**  A  2.00 Units

*Special Topics in Music*

Repeat Status: Course may be taken unlimited times

This course allows students the opportunity to continue their development of musical skills and techniques on a specified instrument in an ensemble setting. 18 hours lecture/54 hours laboratory.

**MUSC C064**  A  1.00 Unit

*Special Topics in Music*

Repeat Status: Course may be taken unlimited times

This course allows students the opportunity to continue their development of musical skills and techniques on a specified instrument in an ensemble setting. This course does not fulfill core or elective requirements for certificates or degrees in the Arts. 9 hours lecture/27 hours laboratory.

**MUSC C101**  A/UC/CSU  3.00 Units

*Music Appreciation*

Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

This course is a music survey course emphasizing the development of the listener’s perception to the basic elements of music. The course is devoted to the study of the development of Western music from approximately 450 AD to the present. Musical examples used in class are drawn from a variety of musical styles. Concert attendance required. 54 hours lecture.
**MUSC C101H**  A/UC/CSU  4.00 Units  
**Music Appreciation Honors**

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course is a music survey course emphasizing the development of the listener's perception to the basic elements of music. The course is devoted to the study of the development of Western music from approximately 450 AD to the present. Musical examples used in class are drawn from a variety of musical styles. The honors course provides more content, and requires greater intensity and depth of study than the non-honors course. Concert attendance and field trips are required. 72 hours lecture.

**MUSC C118**  A/UC/CSU  3.00 Units  
**History of American Popular Music**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course is an introduction to the historical and stylistic developments of American popular music, with an emphasis on its social, economic and political consequences. This course covers the development of Anglo-American folk music, African-American music, musical theatre, and various rock styles. 54 hours lecture.

**MUSC C121**  A/UC/CSU  2.00 Units  
**Piano I**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course is a beginning piano class emphasizing development of technique, practice habits and knowledge of basic music fundamentals. Practice time outside of class is required. 36 hours lecture.

**MUSC C122**  A/UC/CSU  2.00 Units  
**Piano II**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course is a continuation of skill development consistent with 1 semester of college piano study. This course includes progressive technical skills, and easy classics. Practice time outside of class is required. 36 hours lecture.

**MUSC C126**  A/UC/CSU  2.00 Units  
**Guitar**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course is an introduction to the basics of playing the guitar. Guitar techniques covered include both classical and popular styles. Students learn the basics of playing melody and chords using modern notation and tablature. Students must provide their own guitar. 36 hours lecture.

**MUSC C131**  A/UC/CSU  2.00 Units  
**Orchestra I**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course includes the preparation and performance of basic orchestral works. Participation in a public performance is required. 18 hours lecture/54 hours laboratory.

**MUSC C132**  A/UC/CSU  2.00 Units  
**Orchestra II**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course includes the preparation and performance of basic to intermediate orchestral works. Participation in a public performance is required. 18 hours lecture/54 hours laboratory.

**MUSC C135**  A/CSU  2.00 Units  
**Chamber Music I**

Repeat Status: Not repeatable

This course covers preparation and performance of beginning chamber works. Students develop basic skills of small ensemble playing including cueing, sight reading, balancing, blending and ear training. 18 hours lecture/54 hours laboratory.

**MUSC C136**  A/CSU  2.00 Units  
**Chamber Music II**

Repeat Status: Not repeatable

This course covers preparation and performance of beginning to intermediate chamber works. Students develop basic skills of small ensemble playing including cueing, sight reading, balancing, blending and ear training. 18 hours lecture/54 hours laboratory.

**MUSC C141**  A/UC/CSU  2.00 Units  
**Community Band I**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This course includes the preparation and performance of basic concert band and wind ensemble works. 18 hours lecture/54 hours laboratory.
MUSC C142  A/UC/CSU  2.00 Units
Community Band II
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course includes the preparation and performance of basic to intermediate concert band and wind ensemble works. 18 hours lecture/54 hours laboratory.

MUSC C151  A/UC/CSU  2.00 Units
Choir I
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course includes the preparation and performance of basic choral works, including one masterwork yearly. Participation in a public performance is required. 18 hours lecture/54 hours laboratory.

MUSC C152  A/UC/CSU  2.00 Units
Choir II
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course includes the preparation and performance of basic to intermediate choral works, including one masterwork yearly. Participation in a public performance is required. 18 hours lecture/54 hours laboratory.

MUSC C173  A/UC/CSU  3.00 Units
Appreciation of Jazz
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
A survey of 20th Century jazz styles and performers with a historical background of the antecedents of jazz. This course covers and is focused on the history of jazz from its beginnings to the present day, and includes each of the primary jazz periods. Concert attendance required. 54 hours lecture.

MUSC C181  A/CSU  3.00 Units
Music and Technology
Advisory: Reading Level 1
Repeat Status: Not repeatable
This course is an introduction to music technology with topics to include history, overview, CAI software, and fundamentals of analog and digital music systems. Students will be introduced to the operational principles of synthesizer/MIDI keyboards and computer music software. Students will have the opportunity to create their own sound samples and audio tracks, CD's and MP3's using computers and synthesizers. 36 hours lecture/54 hours laboratory.

MUSC C183  A/CSU  3.00 Units
Fundamentals of Sound Design for Media
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course is an introduction to the fundamentals of creating sound for various media. Students explore the relationship of sound and music to video, film, animation, and video games. Students learn how to produce effective audio tracks using live sound, MIDI synthesizers, digital effects and computer hard disk recording. 36 hours lecture/54 hours laboratory.

MUSC C231  A/UC/CSU  2.00 Units
Orchestra III
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course includes the preparation and performance of intermediate orchestral works. Participation in a public performance is required. 18 hours lecture/54 hours laboratory.

MUSC C232  A/UC/CSU  2.00 Units
Orchestra IV
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course includes the preparation and performance of advanced orchestral works. Participation in a public performance is required. 18 hours lecture/54 hours laboratory.

Paralegal Studies

PARA C101  A/CSU  3.00 Units
Introduction to Paralegal Studies
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course introduces students to the field of paralegal studies and examines the role of the paralegal in the legal profession. Students complete practical exercises designed to acquaint them with the varied procedures carried out by paralegals in a typical law practice. Research and case analysis are used to familiarize the student with the various types of law and legal documents. 54 hours lecture.

PARA C105  A/CSU  3.00 Units
Legal Ethics
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This course in legal ethics prepares students to understand complex concepts of legal careers because all legal professionals are required to act with the
same professional care as attorneys. Legal ethics provides a thorough and substantive analysis of the major principles that affect how the practice of law is regulated. 54 hours lecture.

**PARA C112** A/CSU 3.00 Units

**Legal Research and Writing I**

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course provides students with the knowledge and tools to properly complete legal research. The Class will examine both primary and secondary sources. Students will learn to use correct citation form and complete several research assignments. Focus will be on researching Federal and state law using both Internet sources and electronic databases. 54 hours lecture.

**PARA C122** A/CSU 3.00 Units

**Legal Research and Writing II**

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course focuses on the principles of drafting legal documents and the fundamentals of legal analysis. Students will practice writing legal memorandums, court briefs, and correspondence. Students are introduced to the tools and elements of legal analysis including statutory analysis, case law briefs, issue identification, and counter-analysis. 54 hours lecture.

**PARA C130** A/CSU 3.00 Units

**Civil Litigation and Procedure I**

Prerequisite: PARA C112
Repeat Status: Not repeatable

This course prepares the paralegal student for the litigation process and the rules that guide that process. Students learn the steps involved in bringing a civil suit to trial and the development of the case to the appellate process. Students examine the process of discovery and the preparation of a pleading. 54 hours lecture.

**PARA C140** A/CSU 3.00 Units

**Civil Litigation and Procedure II**

Prerequisite: PARA C130
Repeat Status: Not repeatable

This course continues the preparation of the paralegal student for the litigation process and the rules that guide that process. Advanced topics include motions, alternative dispute resolution, appeals and judgments. Students also learn the procedures of a civil case in the state of California. 54 hours lecture.

**PARA C150** A/CSU 3.00 Units

**Law Office Management**

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course prepares students to manage and operate a professional law office. Students practice skills used in managing clients, the calendar, the filing system, and the law library. Other topics include ethics, marketing, billing, and office layout. 54 hours lecture.

**PARA C210** A/UC/CSU 3.00 Units

**California and Federal Civil Procedure Legal Forms**

Advisory: PARA C130 or PARA C140
Repeat Status: Not repeatable

This is a dynamic introduction to legal forms used to initiate California and Federal Civil actions. The course introduces and follows the latest legal form formats of California and the Federal District Courts that are available through the publishers legal form text book and legal form software CD. 54 hours lecture.

**PARA C220** A/CSU 3.00 Units

**Bankruptcy Law**

Prerequisite: PARA C112
Repeat Status: Not repeatable

This course examines the field of bankruptcy law and prepares the student to assist in the bankruptcy process. Students will learn the origins of bankruptcy, types of bankruptcy, common forms used, bankruptcy court procedures and how to research bankruptcy laws. 54 hours lecture.

**PARA C230** A/CSU 3.00 Units

**Probate Law**

Prerequisite: PARA C112
Co-requisite: PARA C112
Repeat Status: Not repeatable

This course examines the field of probate law and prepares the student to assist in the administration of an estate. Topics to be covered include wills, conservatorships, guardianships, trusts, estate planning and taxation of estates. 54 hours lecture.

**PARA C240** A/CSU 3.00 Units

**Criminal Law and Procedure**

Prerequisite: PARA C112
Repeat Status: Not repeatable

This course examines the field of criminal law and procedures that prepares the student to assist in preparation of defense or prosecution of criminals while adhering to U.S. Constitutional safeguards for a
defendant. Students learn all aspects of a trial from the development of the case to the appellate process and the procedures of the criminal justice system. 54 hours lecture.

**PARA C250**  A/CSU  3.00 Units  
**Family Law**  
Prerequisite: PARA C112  
Repeat Status: Not repeatable  
This course examines the field of family law. Students examine the legal principles that define relationships, rights, and duties within family units. The course includes the history of family law and how it has evolved over the last several decades. 54 hours lecture.

**PARA C260**  A/CSU  3.00 Units  
**Personal Injury and Tort Litigation**  
Prerequisite: PARA C112  
Repeat Status: Not repeatable  
This course reviews the practice of tort law. Students are introduced to tort liability issues such as assault and battery, negligence, malpractice, product liability, and defamation. The class provides practice with common documents and procedures used in personal injury and other tort cases. 54 hours lecture.

**PARA C270**  A/CSU  2.00 Units  
**Real Property Law**  
Prerequisite: PARA C112  
Repeat Status: Not repeatable  
This course examines the field of real property law and prepares the student to assist in real estate transactions. Topics to be covered include ownership rules, determination of title, acquisition and transfer of property, financing, and taxation. 36 hours lecture.

**PARA C280**  A/CSU  2.00 Units  
**Worker’s Compensation Law**  
Prerequisite: PARA C112  
Repeat Status: Not repeatable  
This course examines the field of worker's compensation law and prepares the student to assist in torts resulting from work injuries. Topics to be covered include compensation principles, employer-employee relationship, work injuries and accidents and the worker's compensation system. 36 hours lecture.

**PARA C290**  A/CSU  2.00 Units  
**Paralegal Studies Internship**  
Repeat Status: Not repeatable  
This course enables the paralegal student to obtain practical experience under the supervision of an attorney and/or legal professional. Students gain experience in the daily operations of a typical legal office, legal research, interviewing clients and preparing briefs. The course will also cover job search techniques. Students are responsible for arranging their own assignments. This course should be taken after completing most of the Paralegal Studies program and usually in the last semester before earning the degree. 18 hours lecture/60 hours Volunteer or 75 Paid Hours Work Experience.

### Personal Development

**PDEV C005**  X  0.00 Units  
**Exam Preparation for the GED**  
Repeat Status: Course may be taken unlimited times  
This course is designed to prepare students for the General Educational Development Examination (GED). Student participation is required. Assistance is provided for all six subject areas of the GED with emphasis on reading, writing, and mathematics and review of general science, humanities, and social studies. Assistance is tailored to student need based on instructor assessment. 54 hours open laboratory.

**PDEV C023**  P  2.00 Units  
**Learning Disability Awareness and Study Strategies Introduction**  
Repeat Status: Not repeatable  
This course covers basic learning disability awareness and strategies for college success. Students explore topics of disability awareness, learning styles, information processing, memory techniques, time management, goal setting, concentration, anxiety, and reading systems. Open to any student, this class teaches use of personal strengths, specific skills, and strategies to overcome obstacles to college success for students with disabilities. 36 hours lecture.

**PDEV C025**  P  2.00 Units  
**Study Strategies**  
Repeat Status: Not repeatable  
This course is designed for students who have the potential to benefit from college Courses but lack specific skills and learning strategies to succeed in those classes. The course focuses on developing planning strategies and using accommodations for long-term project based on the students' learning styles and/or functional limitations. 36 hours lecture.

**PDEV C035**  P  1.00 Unit  
**Basic Thinking Strategies**  
Repeat Status: Not repeatable  
Designed for students who want to improve their skills
in attention/concentration, memory, spatial processing, and problem solving through the use of computer software and class activities. 18 hours lecture/18 hours laboratory.

PDEV C051  A  1.00 Unit
Training in Assertiveness
Repeat Status: Not repeatable
Students will learn and practice methods to effectively communicate their needs desires, and limitations to other people at home, at work, and in other social situations. 18 hours lecture.

PDEV C052  A  1.00 Unit
Becoming a Successful Online Student
Repeat Status: Not repeatable
The purpose of this course is to cover the basics of taking an interactive, asynchronous, distance education course via the Internet or other computer based system. Through this course, students experience E-mail, online class interactions such as discussion groups and WWW access, and learn about equipment needs and differences between online and on-site Courses. The goal of this class is to better prepare students for taking online classes by familiarizing students with the online course environment. 9 hours lecture/27 hours laboratory.

PDEV C075  A  1.00 Unit
Career Alternatives
Repeat Status: Not repeatable
Through this course, students evaluate their individual life-style preferences through use of class assessment tools. Students explore the world of work and educational programs, and have an opportunity to develop career decisions and action plans necessary to achieve individual career goals. 18 hours lecture.

PDEV C090  A  1.00 Unit
Becoming A Student Ambassador
Repeat Status: Not repeatable
This course is available to all students interested in acquiring skills necessary to be a student ambassador on campus. The course focuses on developing the interpersonal skills necessary for effective verbal communication and appropriate behavior and dress for the work place. The course provides the necessary information regarding college resources and facilities as well as an understanding of the world of academia to effectively represent the campus in a variety of settings. 18 hours lecture.

PDEV C101  A/UC/CSU  3.00 Units
Becoming a Master Student
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course emphasizes skills for becoming an effective student such as time management, note taking, memory skills, textbook reading, exam preparation and test strategies and includes an introduction to a variety of college resources. Students will explore topics such as personal strengths, goal setting, decision making, career choice, and transfer preparation. 54 hours lecture.

PDEV C106  A/CSU  0.50 Units
Orientation to College
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course is an introductory orientation to becoming a college student. This course contains information on college life, support services, degree and transfer requirements, campus resources, career and college programs, student expectations, student activities and other knowledge associated student success. Students apply the course information to their educational goals and planning. 9 hours lecture.

PDEV C131  A/CSU  1.00 Unit
Making Transfer Easy
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course provides an introduction to the transfer research process designed for planning long term educational and career goals. Universities, transfer requirements, application process, degrees offered, housing, financial aid, scholarships, and supportive services are evaluated. 18 hours lecture.

PDEV C190  A/CSU  3.00 Units
Exploring Leadership
Prerequisite: PDEV C090
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course introduces students to the fundamental elements of leadership. Students explore leadership theories and models as well as their own values and beliefs and develop a personal philosophy of leadership that includes an understanding of self, others and community. Students learn how to apply theory into practice as they prepare for leadership roles in college and community. 54 hours lecture.
Philosophy

PHIL C101  A/UC/CSU  3.00 Units
Introduction to Philosophy
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

In this course students are introduced to the subject of philosophy, including its methods, major sub-divisions, and concepts. Topics in metaphysics, ethics, political and social theory, epistemology, identity and existence are considered from the perspective of multiple cultural and historical content. 54 hours lecture.

PHIL C141  A/UC/CSU  3.00 Units
Ethics
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

Students learn a variety of philosophical approaches to moral reasoning and decision making in different cultural and historical contents. Students analyze how philosophers throughout history have considered ethical issues and they apply philosophical reasoning to contemporary issues related to ethical problems. 54 hours lecture.

PHIL C161  A/UC/CSU  3.00 Units
Introduction to Religious Studies
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

The purposes of this course are to explore and explain the historical role of religion in human life across cultures and to explore the place of religion in the global culture of the 21st century. 54 hours lecture.

PHIL C164  A/UC/CSU  3.00 Units
Survey of World Religions
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

In this course students compare a broad range of religious traditions, including Buddhism, Christianity, Hinduism, indigenous and shamanic traditions, Islam, and Judaism, in terms of their common elements of belief and practice, moral philosophy and ethical codes, and historical development, as well as contrasting their distinctive features. 54 hours lecture.

PHIL C205  A/UC/CSU  4.00 Units
Critical and Comparative Reasoning
Advisory: ENGL C101
Repeat Status: Not repeatable

In this course students will develop skill in understanding and applying principles of critical and comparative reasoning within the domain of science, as well as being able to situate science as a method and discipline within the broader questions of human knowledge and methods of inquiry. 72 hours lecture.

PHIL C215  A/UC/CSU  3.00 Units
History of Western Philosophy
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This class is an historical exploration of the most influential philosophers of Western civilization, from the pre-Socratics to the twentieth century and how they dealt with the fundamental questions about life and our human existence. 54 hours lecture.

Physical Education

PHED C101  A/UC/CSU  3.00 Units
Foundations of Physical Education
Repeat Status: Not repeatable

This class is an introduction to the professional field of physical education. Student will examine the significance of physical education within a comprehensive education program and study the historical backgrounds and philosophies in the field. They will also research the relations between physical education and the fields of recreation and health. 54 hours lecture.

PHED C102  A/UC/CSU  2.00 Units
Personal Lifelong Fitness
Advisory: Reading Level 1
Repeat Status: Notrepeatable

This course assists the student in creating a personal wellness and fitness program. The class includes a lifestyle survey, physical fitness assessments, creating a wellness profile, exercise prescription and goal setting techniques. Participation in the class exercise program is required. 18 hours lecture/54 hours laboratory.

PHED C103  A/UC/CSU  1.00 Unit
Aerobic Dance I
Repeat Status: Not repeatable

This is a beginning course in aerobic exercise that emphasizes rhythmic movements and calisthenics. This class is designed to condition the heart and muscles through continuous dance exercises. 54 hours activity.

PHED C104  A/UC/CSU  1.00 Unit
Aerobic Dance II
Repeat Status: Limit 2

This is an intermediate course in aerobic exercise that
emphasizes rhythmic movements and calisthenics. This class is designed to condition the heart and muscles through continuous dance exercises. 54 hours activity.

**PHED C105**  
**Weight Training I**  
Repeat Status: Not repeatable  
This course is designed to acquaint students with the proper fundamentals and techniques in a beginning course in weight training. The course includes material specifically related to strength and muscle development. Emphasis is on individualized programs that contour, build, and firm up the human body in the most efficient manner. It also covers proper care and utilization of equipment involved, and the importance of safety. 54 hours activity.

**PHED C106**  
**Weight Training II**  
Repeat Status: Limit 2  
This intermediate level course is designed to provide knowledge of muscle and strength development. Strong emphasis on weight training program development and adaptation to individual needs is emphasized. 54 hours activity.

**PHED C107**  
**General Conditioning I**  
Repeat Status: Not repeatable  
This is a beginning course in co-educational physical fitness designed to help improve general fitness through exercise. Topics include current scientific trends and methods in fitness and the practical application of physical fitness methods. This course emphasizes the maintenance of an improved level of physical fitness in a group fitness program. 54 hours activity.

**PHED C108**  
**General Conditioning II**  
Repeat Status: Limit 2  
This is an intermediate course in co-educational physical fitness designed to help improve general fitness through exercise. Topics include current scientific trends and methods in fitness and the practical application of physical fitness methods. This course emphasizes the maintenance of an improved level of physical fitness in a group fitness program. 54 hours activity.

**PHED C109**  
**Golf I**  
Repeat Status: Not repeatable  
This course provides golf instruction and practice in the fundamentals of grip, stance, alignment, backswing, and downswing. Topics also include stretching and principles of warm-up, golf club selection and use, player guidelines, scoring, game etiquette, and safety procedures. The course emphasizes the “one basic golf swing” theory and includes extensive practice and play at the local golf course. 54 hours activity.

**PHED C110**  
**Golf II**  
Repeat Status: Limit 2  
The course addresses Intermediate golfers with swing habits that are counterproductive to effective ball striking. Corrective measures are explored; drills, training aids and practice plans prescribed. The intermediate level fundamentals of the golf swing and short game techniques of chipping, pitching, putting and bunker play will be addressed. The course emphasizes the “one basic golf swing” theory and includes extensive practice and play at the local golf course. 54 hours activity.

**PHED C113**  
**Tennis I**  
Repeat Status: Not repeatable  
This is a beginning course in the fundamentals of tennis. This class emphasizes the serve, forehand and backhand ground-strokes, volley, rules of the game and court etiquette. 54 hours activity.

**PHED C114**  
**Tennis II**  
Prerequisite: PHED C113  
Repeat Status: Limit 2  
This is an advanced course in tennis. This class refines the competitive strokes with special emphasis on the lob, smash (overhead), and advanced singles and doubles play. 54 hours activity.

**PHED C115**  
**Volleyball I**  
Repeat Status: Not repeatable  
This is a beginning course designed to introduce the fundamental skills of beginning volleyball. Skills include serving, passing, setting, offensive and defensive strategies. 54 hours activity.

**PHED C116**  
**Volleyball II**  
Repeat Status: Limit 2  
This is an intermediate course designed to refine the fundamental skills of beginning volleyball. Skills include serving, passing, setting, offensive and defensive strategies as well as an introduction to advanced game play. 54 hours activity.
PHED C123  A/UC/CSU  1.00 Unit
Softball I
Repeat Status: Not repeatable
This is a beginning level course designed to introduce basic softball skills. The class emphasizes strategies and fundamentals of offensive and defensive play including batting, bunting, fielding, and throwing. Students participate in practice drills as well as game setting situations. 54 hours activity.

PHED C124  A/UC/CSU  1.00 Unit
Softball II
Repeat Status: Limit 2
This is an intermediate course designed for the continuation of basic softball skills. Emphasis is placed on the development of defensive tactics by position and special situations like double plays, backing up, pick-off and relay throws. Students participate in practice drills as well as game setting situations. 54 hours activity.

PHED C129  A/UC/CSU  1.00 Unit
Cardiovascular Fitness I
Repeat Status: Not repeatable
This is a beginning course in cardiovascular fitness using the machines in the fitness lab (rowers, stationary bikes, treadmills and stair steppers). This class is designed for inactive people who want to begin a cardiovascular exercise program. 54 hours activity.

PHED C130  A/UC/CSU  1.00 Unit
Cardiovascular Fitness II
Prerequisite: PHED C129
Repeat Status: Limit 2
This is an advanced course in cardiovascular fitness using the machines in the fitness lab (rowers, stationary bikes, and stair steppers). This class is designed for the moderately/advanced fit person who wants to improve his/her cardiovascular fitness level. 54 hours activity.

PHED C131  A/UC/CSU  1.00 Unit
Wellness Walking I
Repeat Status: Not repeatable
This course is designed to give the student a practical understanding of cardiovascular fitness produced by walking. Experiences are provided to help the student understand the benefits, organization, implementation and evaluation of a balanced aerobic fitness program utilizing walking as the primary activity. 54 hours activity.

PHED C132  A/UC/CSU  1.00 Unit
Wellness Walking II
Repeat Status: Limit 2
This course is designed to build cardio-respiratory stamina and endurance, attack excessive weight, relieve psychological tension, and enhance one's sense of well-being, using a definitive and strenuous walking plan. This walking program consists of activity alternating from a slow to a vigorous pace. 54 hours activity.

PHED C140  A/CSU  1.00 Unit
Day Hiking
Repeat Status: Limit 3
Provide an introduction to basic day hiking techniques, first aid, and hike preparedness. Topics include wilderness, hiking in the desert and Eastern Sierra environment, public land management agencies, basic first aid, information resources, special considerations, nutrition and hydration, rules and regulations, and trip planning. Students should expect to participate in group hikes of 3-5 miles. 54 hours activity.

PHED C151  A/UC/CSU  1.50 Units
Conditioning for Competitive Athletes I
Repeat Status: Limit 1
This is an introductory course designed to help improve fitness through exercise for competitive athletes. It includes current scientific trends and methods in related general physiology and kinesiology and the practical application of physical fitness methods. This course emphasizes the maintenance of an improved level of physical fitness through an individually designed fitness program. 81 hours activity.

PHED C152  A/UC/CSU  1.50 Units
Conditioning for Competitive Athletes II
Prerequisite: PHED C151
Repeat Status: Limit 1
This is an advanced course designed to help improve fitness through exercise for competitive athletes. It includes current scientific trends and methods, general psychological and kinesiological and the advanced application of physical fitness methods. This course emphasizes the maintenance of a high level of physical fitness through an individually designed fitness program. 81 hours activity.

PHED C156  A/CSU  1.00 Unit
Practicum in Athletic Training
Repeat Status: Limit 3
This course is designed to introduce students to the athletic training educational competencies set forth by the National Athletic Trainers Board of Certification
PHED C173  A/UC/CSU  1.00 Unit
Intercollegiate Baseball I
Repeat Status: Limit 2

This course involves participation in competition and skill development in intercollegiate baseball. There is an emphasis on advanced skill, theory, tactics and strategy in intercollegiate baseball. This course is taken during the first semester of athletic eligibility. All students must meet CCCAA Athletic Code Eligibility Guidelines. 175 hours activity.

PHED C174  A/UC/CSU  1.00 Unit
Intercollegiate Baseball II
Repeat Status: Not repeatable

This course involves participation in a high level of competition and skill development at the intercollegiate level in the sport of baseball. Emphasis will be placed on advanced skill, theory, tactics and strategy and intercollegiate competition. Students must meet COA Athletic Code Eligibility Guidelines. This course is to be taken during the second semester of intercollegiate athletic eligibility (spring only). 175 hours activity.

PHED C175  A/UC/CSU  2.00 Units
Competitive Baseball I
Repeat Status: Not repeatable

This is a sport course designed to prepare the athlete for baseball at the competitive level. Skills will be developed through high intensity practice sessions on a daily basis. Offensive and defensive theory will be discussed and put in to practice in game speed situations. 108 hours activity.

PHED C176  A/UC/CSU  2.00 Units
Competitive Baseball II
Prerequisite: PHED C175
Repeat Status: Not repeatable

This is an intermediate level sport course designed to prepare the athlete for baseball at the competitive level. Basic skills will be reviewed. Advanced skills and theory will be introduced. 108 hours activity.

PHED C177  A/UC/CSU  1.00 Unit
Women's Intercollegiate Basketball I
Limitations on Enrollment: Must meet CCCA Athletic Code Eligibility Guidelines.
Repeat Status: Not repeatable

This course is designed for student athletes that wish to play intercollegiate basketball. Students will develop skills in all areas of the game through daily practices that will include: individual and team drills, scrimmages (intra-team play), film sessions, game strategy sessions, and outside team competition. 90 hours activity.

PHED C178  A/UC/CSU  1.00 Unit
Women's Intercollegiate Basketball II
Limitations on Enrollment: Must meet CCCA Athletic Code Eligibility Guidelines.
Repeat Status: Not repeatable

This course is designed for the second semester of intercollegiate competition and is a continuation from the previous semester. Students will continue to develop basketball skills in all areas of the game and learn new basketball strategies. 85 hours activity.

PHED C276  A/UC/CSU  1.00 Unit
Women's Intercollegiate Basketball III
Limitations on Enrollment: Must meet CCCA Athletic Code Eligibility Guidelines.
Repeat Status: Not repeatable

This course is designed for the second year and third semester student participant. Students will participate in higher level activity and skill development. The class will emphasize advanced strategies including various offenses and defense. 90 hours activity.

PHED C277  A/UC/CSU  1.00 Unit
Women's Intercollegiate Basketball IV
Limitations on Enrollment: Must meet CCCA Athletic Code Eligibility Guidelines.
Repeat Status: Not repeatable

This course is designed for the fourth semester of intercollegiate competition. Students will participate in advanced drills and competition. Emphasis will include advanced strategies, ability to recognize various offenses and defenses. 85 hours activity.
Physical Science

PHSC C101  A/UC/CSU  3.00 Units
General Earth Sciences Lecture
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This lecture course covers the study of the Earth as an integrated system, including Earth surface processes, tectonics and mountain building, surface water and groundwater, Earth-Sun relationships and motions, weather, climatic types, soil types, natural hazards, resource management, landforms, and the ocean. An emphasis is placed on understanding geologic issues important to society. Not open to students who have completed PHSC C105. 54 hours lecture.

PHSC C102  A/UC/CSU  1.00 Unit
General Earth Sciences Laboratory
Prerequisite: PHSC C101 or concurrent enrollment
Repeat Status: Not repeatable

This laboratory course provides practical experience in field methods and enhancement of topics in PHSC C101 such as topographic map reading, air photo interpretation, soils, natural hazards, resource management, landforms, Earth-Sun relationships and motions, weather, climatic types and regions, ecosystems, and the ocean. 54 hours laboratory.

PHSC C105  A/UC/CSU  4.00 Units
General Earth Sciences
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This lecture and laboratory course covers the study of the Earth as an integrated system. Lecture topics include Earth surface processes, tectonics and mountain building, surface water and groundwater, Earth-Sun relationships and motions, weather, climatic types, soil types, natural hazards, resource management, landforms, and the ocean. An emphasis is placed on understanding geologic issues important to society. Meanwhile, laboratory provides practical experience in field methods and enhancement of lecture topics such as topographic map reading, air photo interpretation, soils, natural hazards, resource management, landforms, Earth-Sun relationships and motions, weather, climatic types and regions, ecosystems, and the ocean. Not open to students who have completed PHSC C101. 54 hours lecture/54 hours laboratory.

PHSC C111  A/UC/CSU  3.00 Units
Concepts of Physical Science
Prerequisite: MATH C055
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

This course is a survey of concepts in physics and chemistry, with applications to the earth sciences and astronomy, for the non-science major. Topics such as motion, energy, electricity, magnetism, waves, atoms, chemistry and chemical reactions are covered on a conceptual basis with a minimum amount of mathematics. 54 hours lecture.

PHSC C112  A/UC/CSU  1.00 Unit
Concepts of Physical Science Laboratory
Co-requisite: PHSC C111 or concurrent enrollment
Repeat Status: Not repeatable

This laboratory course covers conceptual experiments in physics and chemistry, with applications to the earth sciences and astronomy, for the non-science major. Experiments in motion, energy, electricity, magnetism, waves, atoms, chemistry and chemical reactions are covered on a conceptual basis. 54 hours laboratory.

PHSC C115  A/UC/CSU  4.00 Units
Physical Science
Prerequisite: MATH C050
Advisory: Level 1 Reading, Level 2 Writing
Repeat Status: Not repeatable

This course covers conceptual topics in physics and chemistry, with applications to the earth sciences and astronomy, for the non-science major. Topics such as motion, energy, electricity, magnetism, waves, atoms, chemistry and chemical reactions are covered. The laboratory portion of this course covers conceptual experiments in physics and chemistry, with applications to the earth sciences and astronomy. Experiments in motion, energy, electricity, magnetism, waves, atoms, chemistry and chemical reactions are performed. Not open to students who have completed PHSC 111. 54 hours lecture/54 hours laboratory.

PHSC C121  A/UC/CSU  3.00 Units
Elementary Astronomy
Advisory: Reading Level 1, Writing Level 2, Math Level 2
Repeat Status: Not repeatable

This course is a general survey of the physical universe; the nature and evaluation of the universe, galaxies, stars, and planets. The methods and tools by which the current understanding has been achieved will be emphasized as will special topics of the current interest. 54 hours lecture.

PHSC C122  A/UC/CSU  1.00 Unit
Elementary Astronomy Laboratory
Prerequisite: PHSC C121 or concurrent enrollment
Repeat Status: Not repeatable

This course is the laboratory portion of Astronomy. This course will cover optical principles, the use of several
**Physics**

**PHYS C111**  
**Mechanics**  
A/UC/CSU 5.00 Units  
Prerequisite: MATH C151 or concurrent enrollment  
Repeat Status: Not repeatable  
This course covers the fundamental laws of nature governing the motion of bodies and their relation to external forces. Motion in 1, 2, and 3 dimensions is covered as well as conservation of momentum, energy and angular momentum, gravitation, fluid statics and dynamics, oscillation and simple harmonic motion. 63 hours lecture/81 hours laboratory.

**PHYS C113**  
**Electricity and Magnetism**  
A/UC/CSU 5.00 Units  
Prerequisite: PHYS C111, MATH C152 or concurrent enrollment  
Repeat Status: Not repeatable  
This course covers electromagnetic principles such as charge and matter, electric and magnetic fields, potential, capacitors, dielectric materials, resistance, current, AC and DC circuits, induction, Maxwell’s equations, and electromagnetic waves. 63 hours lecture/81 hours laboratory.

**PHYS C211**  
**Waves, Optics and Modern Physics**  
A/UC/CSU 5.00 Units  
Prerequisite: PHYS C113  
Repeat Status: Not repeatable  
This course covers the laws governing wave motion, thermodynamics, optics, atomic physics, quantum physics, and other aspects of modern physics. 63 hours lecture/81 hours laboratory.

**Political Science**

**POLS C101**  
**American Government**  
A/UC/CSU 3.00 Units  
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
The course includes the study of American government with an emphasis on national, state, and local government. In addition, students will undertake a comprehensive analysis of government structure, functions, principles and problems. 54 hours lecture.

**POLS C101H**  
**American Government – Honors**  
A/UC/CSU 4.00 Units  
Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.
Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
The course includes the study of American government with an emphasis on national, state, and local government. In addition, students will undertake a comprehensive analysis of government structure, functions, principles, and problems. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

**POLS C102 A/UC/CSU 3.00 Units**  
**Comparative Government**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
This course introduces students to the comparative analysis of government and politics. A number of key political concepts are discussed, which include statehood, democracy and democratization, governmental institutions and political systems, and the development of parties and interest groups. Course concepts are applied to a variety of modern nations to illustrate different political systems. 54 hours lecture.

**POLS C204 A/UC/CSU 3.00 Units**  
**United States Foreign Policy**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
This course examines U. S. foreign policy from an historical perspective and through an analysis of the policy making process. Students will study how specific policies are products of both internal and external factors. Several methods for evaluating U. S. policies will be identified and applied to current policies. 54 hours lecture.

**Psychology**

**PSYC C101 A/UC/CSU 3.00 Units**  
**General Psychology**

Prerequisite: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course offers the student an introduction to the scientific study of behavior and mental processes focusing on exploration of major psychological theories and concepts, methods, and research findings in psychology. Topics include the biological bases of behavior and mental processes, perceptions, consciousness, memory, cognition, learning, motivation, emotion, development, intelligence, personality, social psychology, psychological disorders and therapeutic approaches, and applied psychology. The American Psychological Association (APA) format is taught and applied to written assignments and papers. 54 hours lecture.

**PSYC C101H A/UC/CSU 4.00 Units**  
**General Psychology – Honors**

Limitation on Enrollment: Acceptance for the Honors program or eligibility for this Honors course as determined in consultation with the instructor.  
Prerequisite: Reading level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course offers the student an introduction to the scientific study of behavior and mental processes focusing on exploration of major psychological theories and concepts, methods, and research findings in psychology. Topics include the biological bases of behavior and mental processes, perceptions, consciousness, memory, cognition, learning, motivation, emotion, development, intelligence, personality, social psychology, psychological disorders and therapeutic approaches, and applied psychology. The American Psychological Association (APA) format is taught and applied to written assignments and papers. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

**PSYC C112 A/CSU 3.00 Units**  
**Introduction to Substance Abuse Issues**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
The purpose of this course is to provide an overview of the history and theories related to substance abuse, including alcoholism, drug abuse, and chemical dependency. The course will address cultural, religious, and political influences, as well as public policy issues, prevention, and treatment, including recovery, relapse and self-help models. 54 hours lecture.

**PSYC C211 A/UC/CSU 3.00 Units**  
**Lifespan Development**

Advisory: Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable  
This course is a survey of developmental research and theory from the prenatal period through old age. It examines findings in physiological, perceptual, cognitive, social, vocational, and personality development. The course addresses issues in research methodology and applications. 54 hours lecture.

**PSYC C231 A/CSU 3.00 Units**  
**Health Psychology**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable  
Students will be introduced to the theory and research which describes mind-body-behavior connections in health and wellbeing. Concepts covered include stress and coping, personality and disease, psycho-
neuroimmunology, and the influence of social stratification, social support, altruism humor and personal meaning on health outcomes, and the development of behaviorally healthy lifestyles. 54 hours lecture.

**PSYC C241**  
**A/UC/CSU**  
**3.00 Units**  
**Abnormal Psychology**

Advisory: PSYC C101  
Repeat Status: Not repeatable

This course is an introduction to major theories, concepts, of psychopathology, including methods of classification, systems of diagnosis, and treatment methods. 54 hours lecture.

**PSYC C251**  
**A/UC/CSU**  
**3.00 Units**  
**Human Sexuality**

Advisory: PSYC C101  
Repeat Status: Not repeatable

This course covers the complex and diverse physiological, psychological, and socio-cultural aspects of human sexuality. Discussions include evaluation of prominent theories, examination of academic research and exploration of current issues pertaining to human sexuality. 54 hours lecture.

**Renewable Energy Technology**

**RET C101**  
**A/CSU**  
**1.00 Unit**  
**Introduction to Wind Turbine Technology**

Advisory: MATH C050, Reading Level 1, Writing Level 1  
Repeat Status: Not repeatable

This course is an introduction to the basic concepts and terminology of how wind energy is captured and transformed into electrical power. Topics include mechanical physics, electricity and magnetism, fluid dynamics, and aerodynamics. The course introduces the student to the physical principles underlying the engineering of wind towers and electrical generators. 18 hours lecture.

**RET C102**  
**A/CSU**  
**4.00 Units**  
**Wind Turbine Technician I**

Advisory: CSCI C070, Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable

This is the first in the series of two Courses designed to instruct students in the fundamentals of wind turbine operation and maintenance and prepare them for positions in the wind industry as technicians. In this course there is a strong emphasis on safety as well as electrical testing equipment, AC and DC theory and hydraulics. 54 hours lecture/54 hours laboratory.

**RET C103**  
**A/N/CSU**  
**4.00 Units**  
**Wind Turbine Technician II**

Prerequisite: RET C102  
Repeat Status: Not repeatable

This is the second in the series of two Courses designed to instruct students in the fundamentals of wind turbine operation and maintenance and prepare them for positions in the wind industry as technicians. Topics covered include: Concepts of electronics, mechanical systems, electrical systems, PLC’s, maintenance and trouble shooting, construction, data analysis, and meteorology. 54 hours lecture/54 hours laboratory.

**RET C104**  
**A/CSU**  
**1.00 Unit**  
**Introduction to Solar Power Technology**

Advisory: Reading Level 1, Writing Level 2  
Repeat Status: Not repeatable
This course introduces an overview of the solar energy and power industry and is also an introduction to the basic concepts and terminology of how solar energy is captured and transformed into electrical power. Topics include the history of solar and photo voltaic technology and related safety considerations. 18 hours lecture.

RET C105  A/N/CSU  3.00 Units  
**Solar Energy I: Photovoltaic Technology and Applications**

Prerequisite: RET C104 or concurrent enrollment
Repeat Status: Not repeatable

This course is designed to prepare the learner with basic knowledge of photovoltaic systems, suitable for a supervised, entry level position with a dealer/installer or other PV industry company. 45 hours lecture/27 hours laboratory.

RET C111  A/CSU  4.00 Units  
**Electrical Circuit Analysis I**

Advisory: MATH C050
Repeat Status: Not repeatable

Students will learn International System of Units; engineering notation and prefixes; definitions of current, voltage, resistance, power, work and efficiency; Ohm's and Kirchhoff's Laws; series and parallel circuit principles; series-parallel, DC resistive networks. Thevenin and Norton's theorems. Note: This course is cross listed with ET C101. 72 hours lecture.

RET C112  A/CSU  4.00 Units  
**Electrical Circuit Analysis II**

Prerequisite: ET C101 or RET C111
Advisory: MATH C142
Repeat Status: Not repeatable

The course will cover power in AC circuits and the application of Kirchhoff’s Law, the concept of dependent sources, Thevenin and Norton equivalent circuits, the phenomena of resonance, transfer functions and filters, and transformers. Note: This course is cross listed with ET C105. 72 hours lecture.

RET C115  A/CSU  4.00 Units  
**Fundamentals of Electricity for Renewable Energy**

Advisory: INSF C070, MATH C056, RET C100
Repeat Status: Not repeatable

This course introduces students to the basics of direct current (DC) and alternating current (AC) electricity. Students gain a broad understanding of the physics of current flow, what is a circuit, what is isolation and grounding, and what causes arcing as circuit parameters change. Students gain hands-on experience in the application of these concepts and apply safe practices to wire circuits and to troubleshoot faults. 54 hours lecture/54 hours laboratory.

RET C120  A/CSU  4.00 Units  
**Introductory Hydraulics**

Prerequisite: RET C101
Advisory: MATH C050
Repeat Status: Not repeatable

Students will learn the fundamental concepts of hydraulics, lubrication, and bearing technology with a focus on entering a profession in the wind power industry. Lab work includes learning and applying hydraulic concepts using an MB 400 Hydraulic System. 72 hours lecture.

**Sociology**

SOCI C101  A/UC/CSU  3.00 Units  
**Introduction to Sociology**

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course introduces and clarifies concepts and research findings of contemporary sociology; understanding human groups such as the family, the playgroup, the work group, social class, institutions, mass behavior and culture. Discussion is centered on the effects of social change in an industrial society. 54 hours lecture.

SOCI C131  A/UC/CSU  3.00 Units  
**Sociology of Women**

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course is an examination of women's roles in the modern world, particularly in the United States, and includes historical, cross-cultural, psychological, sociological and political aspects. The focus of this course is analysis and discussion of gender relations in the home, family and the work place, and the treatment of women in politics, law, the mass media and health care systems. 54 hours lecture.

SOCI C210  A/UC/CSU  3.00 Units  
**Diversity and Film**

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

Through the use of films, documentaries and analytical essays students use critical reasoning skills to discover how the structures of race, class, gender and similar constructs have shaped and formed our society and our culture. There is analysis, discussion, and written critique of selected films and readings. This satisfies the Cerro
SOCI C220  A/UC/CSU  3.00 Units
Perspectives on Race, Class and Gender
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
Students will use critical reasoning skills to discover how the structures of race, class, gender and similar constructs have shaped and formed our society. The class will cover a range of topics from the philosophical origins of racist thought to an exploration of current buzzwords such as diversity and multiculturalism. Through multiple and varied readings and classroom discussion we will attempt to discover the interrelatedness of concepts such as race, class and gender and the roots and future of our "melting pot" society. Note: This course is cross listed with INST C220. 54 hours lecture.

SPAN C100  A/CSU  3.00 Units
Basic Conversational Spanish
Advisory: Reading Level 2, Writing Level 2
Repeat Status: Limit 3
This course is designed to start students speaking Spanish confidently at a basic level. Emphasis will be made on oral practice, pronunciation and vocabulary building. The class will develop the students' speaking skills and understanding of Spanish for practical use in everyday situations. This course is neither a prerequisite nor equivalent to SPAN C101 and can be taken concurrently with SPAN C101. 54 hours lecture.

SPAN C101  A/UC/CSU  5.00 Units
Elementary Spanish I
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This is an introductory course where students learn basic grammar and vocabulary for speaking, reading, understanding and writing at the beginning level as well as learn about the culture and civilization of the Spanish-speaking world. 90 hours lecture.

SPAN C102  A/UC/CSU  5.00 Units
Elementary Spanish II
Prerequisite: SPAN C101 or two years of High School Spanish or the equivalent
Repeat Status: Not repeatable
This course is a continuation of the introduction to the Spanish language presented in SPAN C101. Students continue to focus on the grammar and vocabulary necessary for speaking, reading, understanding and writing at the high-beginner level as well as learning about the culture and civilization of the Spanish-speaking world. 90 hours lecture.

SPAN C110  A/CSU  5.00 Units
Review of Elementary Spanish
Advisory: SPAN C101 and/or SPAN C102
Repeat Status: Not repeatable
This is an intensive course for students with previous training in Spanish but without the proficiency required for a second year course. This is a comprehensive review of most of the major grammatical components of Spanish C101 and C102. Past experience in Spanish could include but is not limited to those who studied the language at some time in the past and have not utilized it, those who speak fairly well but wish to improve writing skills, or those who wish to solidify what they have recently learned before taking a more advanced course. 90 hours lecture.

SPAN C171  A/UC/CSU  3.00 Units
Intermediate Conversation
Advisory: SPAN C102
Repeat Status: Limit 2
This course improves the student's ability to communicate in Spanish through vocabulary building, reading, and classroom conversation at a mid to high-intermediate level. Through an interactive classroom approach, students have the opportunity to enhance their oral proficiency as they apply the language to a variety of situations. There is some review of the most difficult grammar concepts for non-native speakers. May be taken concurrently with SPAN C201. 54 hours lecture.

SPAN C180  A/UC/CSU  3.00 Units
Spanish for Native Speakers
Advisory: Reading Level 2, Writing Level 2
Repeat Status: Not repeatable
This course is designed for native Spanish speakers, who already speak, read and write the language but wish to develop their fluency further through vocabulary building, spelling and accentuation rules, cognates, grammatical structures and composition. Cultural topics will also be in order for students to have a deeper understanding and awareness of their cultural heritage. This course is taught in Spanish. 54 hours lecture.

SPAN C211  A/UC/CSU  3.00 Units
Hispanic Cinema
Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable
This class studies Hispanic civilization and culture through films, videos and documentaries, as well as
varied readings. There is analysis, discussion, and written critique of selected films from Spain, Latin America and the United States. The class covers a variety of cultural issues such as the art, music, history and politics of the Hispanic world. There is an emphasis on issues of multiculturalism and diversity as illustrated by the films and readings on issues such as race, class, gender and immigration issues. Films are subtitled; no knowledge of Spanish is required. This course is cross listed with FILM C211. 54 hours lecture.

Speech

SPCH C101  A/UC/CSU  3.00 Units
Elements of Speech

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

In this speech course for transfer to four-year institutions, students learn to make effective oral presentations by gathering and selecting information, arranging materials, analyzing audience and occasion, and controlling expression and delivery. 54 hours lecture.

SPCH C105  A/UC/CSU  3.00 Units
Interpersonal Communication

Advisory: Reading Level 1, Writing Level 1
Repeat Status: Not repeatable

This course provides an introduction to all aspects of the communication process, including intrapersonal, interpersonal, and group communication as well as speaking in public. The course emphasizes an understanding of communication in everyday life in conjunction with the knowledge of how to present ideas, thoughts, and feelings. Various theories of interpersonal communication are introduced. Participation in a variety of learning experiences is designed to enhance competence and to develop skills in interpersonal relationships. 54 hours lecture.

Theatre

THEA C101  A/UC/CSU  3.00 Units
Introduction to Theatre

Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

Designed for the liberal arts student, this course explores many aspects of the theatre. Students will learn about the key players in the theatre, including the playwright, the director, the actor, and the designer. The goals is to heighten the student’s appreciation and understanding of the art of theatre. The course will cover theatre history and dramatic literature from Ancient Greece to present-day theatre. 54 hours lecture.

THEA C103  A/UC/CSU  3.00 Units
Introduction to Play Reading

Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable

This course provides an introduction to play reading and prepares students for further study in theatre. Students will read and discuss a variety of play, considering each play from the practical perspective of the actor, director, designer, and technician. The course will also cover the fundamental dramatic elements, styles and genres. This course is ideal for actors and other theatre enthusiasts who would like to become familiar with a wide range of plays. 54 hours lecture.

THEA C105  A/CSU  2.00 Units
Performance Studies

Advisory: Reading Level 1, Writing Level 2
Repeat Status: Limit 3

This course introduces students to types of performance beyond the traditional stage performance. Students will learn to gather, select, compose, and arrange various texts into script format. Students will rehearse and perform literary and conversational texts in both solo and group performances. 27 hours lecture/27 hours laboratory.

THEA C111  A/UC/CSU  2.00 Units
Fundamentals of Acting

Advisory: Reading Level 2, Writing Level 2
Repeat Status: Not repeatable

This course provides students with an introduction to acting. Students will learn the fundamentals of stage terminology and technique through theatre exercises, improvisations, cold readings and monologues. Students will be exposed to strategies for improving self-presentation and for overcoming stage fright. 18 hours lecture/54 hours laboratory.

THEA C112  A/UC/CSU  2.00 Units
Beginning Acting

Prerequisite: THEA C111
Repeat Status: Not repeatable

This course introduces students to the Stanislavski system. Class work focuses on the enhancement of vocal and physical creativity and the development of character-to-character relationships. Students will practice their skills in the performance of theatre exercises, improvisations, cold readings, monologues, and scenes. 18 hours lecture/54 hours laboratory.

THEA C118  A/UC/CSU  2.00 Units
Improvisation

Repeat Status: Limit 3
This course introduces students to improvisational performance. Class work focuses on the enhancement of spontaneity, creativity, and group collaboration in performance. Students will practice comedic timing, scene building, and improvisation techniques in in-class exercises and public performances. 18 hours lecture/54 hours laboratory.

**THEA C121** A/UC/CSU 3.00 Units
**Theatre Production**
Repeat Status: Limit 3

Students will learn how to rehearse for and produce main stage, experimental, and/or reader’s theatre plays. The course will focus on theatre activity for the beginning or advanced student in acting and technical production. Students will explore such technical areas as set construction, costuming, publicity, and theatre management. 18 hours lecture/108 hours laboratory.

**THEA C126** A/UC/CSU 3.00 Units
**Shakespeare Theatre Production**
Repeat Status: Limit 3

Students will learn how to rehearse for and produce a Shakespeare play in the original Elizabethan English, getting practical experience in reading, parsing, and interpreting the text for dramatic production. The course will focus on theatre activity for the beginning or advanced student in acting and technical production. Students will explore such technical areas as set construction, costuming, publicity, and theatre management. 27 hours lecture/81 hours laboratory.

**THEA C131** A/UC/CSU 3.00 Units
**Technical Theatre**
Repeat Status: Limit 3

This course exposes students to the technical areas of theatre production, including set design, lighting, sound, costuming, props, hair and makeup, and publicity. Students will learn how the technical elements integrate with the work of the performers and will participate in the entire production process from the auditions to the run of the show. 18 hours lecture/108 hours laboratory.

**THEA C140** A/UC/CSU 2.00 Units
**Movement for the Actor**
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Limit 3

This course offers an introduction to movement for the actor. Students will learn relaxation, breathing, and vocal production techniques to enhance vocal clarity and expressiveness for performance. The course will guide student work on vocal characterization and the use of dialects in performance. 27 hours lecture/27 hours laboratory.

**THEA C145** A/CSU 2.00 Units
**Voice for the Actor**
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Limit 3

This course offers an introduction to vocal performance for the actor. Students will learn relaxation, breathing, and vocal production techniques to enhance vocal clarity and expressiveness for performance. The course will guide student work on vocal characterization and the use of dialects in performance. 27 hours lecture/27 hours laboratory.

**THEA C211** A/UC/CSU 2.00 Units
**Intermediate Acting**
Prerequisite: THEA C112
Repeat Status: Not repeatable

This course focuses on the interpretation and performance of comedic scripts. Students will work with partners to develop comedic timing and the “inner dialogue” of the character. Students will build on their knowledge of the Stanislavski System as they practice their skills in the performance of theatre exercises, improvisations, cold readings, comedic monologues, and comedic scenes. 18 hours lecture/54 hours laboratory.

**THEA C212** A/UC/CSU 2.00 Units
**Advanced Acting**
Prerequisite: THEA C211
Repeat Status: Not repeatable

This course focuses on the interpretation and performance of classical scripts. Students will work on advanced vocal and physical exercises to develop skills in characterization. This course will introduce students to an array of acting methods beyond the Stanislavski System. Students will practice their skills in the performance of theatre exercises, improvisations, cold readings, classical monologues, and classical scenes. 18 hours lecture/54 hours laboratory.

**THEA C230** A/UC/CSU 2.00 Units
**Directing**
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Limit 3

This course provides students an introduction to directing. The course will focus on the theory and process of directing, from play selection to performance. Students will develop directing techniques and skills by directing short dramatic works. 27 hours lecture/27 hours laboratory.
Thea C241  A/CSU  2.00 Units
Creative Drama
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Limit 3
This course exposes students to the use of drama as a
learning tool and is appropriate for drama enthusiasts;
pre-school, elementary, and secondary educators; as
well as those who will guide recreational pro-gra-mmes.
Students will gain the necessary skills to guide
experiences that will foster personal development,
dramatic play, and storytelling and dramatization skills
in others. 18 hours lecture/54 hours laboratory.

Welding

Weld C101  A/CSU  3.00 Units
Oxyacetylene Welding
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course provides practical experience in welding,
brazing, soldering, and cutting of steel using
oxyacetylene. Topics include safety, metals and their
physical properties, setup and use of oxyacetylene
equipment, and welding and cutting techniques. 36
hours lecture/54 hours laboratory.

WELD C102  A/CSU  2.00 Units
Shielded Metal Arc Welding (SMAW)
Prerequisite: WELD C101
Repeat Status: Not repeatable
This course provides practical, hands-on experience in Shielded Metal Arc Welding (SMAW) as well as
lecture on safety, different types of SMAW machines,
identification of metals, electrode selection and
electrical theory. 18 hours lecture/54 hours laboratory.

WELD C200  A/CSU  2.00 Units
Gas Metal Arc Welding (GMAW)
Advisory: Reading Level 1, Writing Level 2
Repeat Status: Not repeatable
This course provides practical experience in Gas Metal Arc Welding (GMAW) (MIG) as well as lectures on safety,
welding and identification of ferrous and non-ferrous
metals, shielding gasses, bare and flux cored electrodes,
and proper selection of welding materials for different
applications. 18 hours lecture/54 hours laboratory.

WELD C201  A/CSU  3.00 Units
Welding Fabrication
Prerequisite: WELD C203
Repeat Status: Not repeatable
This course is designed to enable the student to
construct welded projects using the processes learned
in previous Courses. The student learns how to read
technical drawings and interpret welding symbols,
produce shop drawings, and use trade related math in
the layout and assembly process. 36 hours lecture/54
hours laboratory.

WELD C203  A/CSU  2.00 Units
Gas Tungsten Arc Welding (GTAW)
Prerequisite: WELD C102
Repeat Status: Limit 3
This course provides practical experience in Gas
Tungsten Arc Welding (GTAW) (TIG) as well as lectures on safety, welding and identification of exotic metals,
types of filler metals and shielding gasses. This course
may be taken three times. 18 hours lecture/54 hours laboratory.

WELD C204  A/CSU  3.00 Units
Pipe and Tube Welding
Prerequisite: WELD C203
Repeat Status: Not repeatable
This course is designed to help the student develop
skills required to be proficient at the welding of pipe
and tubing using the SMAW and GTAW processes.
Welding position, preparation, and fit-up are covered
as well as techniques and special conditions associated
with the welding of pipe. 36 hours lecture/54 hours laboratory.
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MA California State University, San Bernardino

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MM Arizona State University  
DMA State University of New York at Stony Brook

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MS University of California, Davis
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<tr>
<td>Cheryl Gates</td>
<td>Health Careers</td>
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<td>Pamela Godfrey</td>
<td>Counseling</td>
<td>Assistant Professor</td>
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<td>Lucila Gonzalez-Cirre</td>
<td>Spanish</td>
<td>Associate Professor</td>
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<td>Karee Hamilton</td>
<td>Counseling</td>
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<td>Jon Heaton</td>
<td>Spanish</td>
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<td>Tom M. Heck</td>
<td>Physical Education</td>
<td>Professor</td>
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<td>Matthew W. Hightower</td>
<td>Business/Computer Science</td>
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<td>Annette Hodgins</td>
<td>Health Careers</td>
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<td>Janis Jamison-Nichols</td>
<td>Speech</td>
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<td>Dennis Jensen</td>
<td>Biology</td>
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<td>Matthew Jones</td>
<td>History/Political Science</td>
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<td>Kimberlee Kelly</td>
<td>Physical Education</td>
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<td>Sarah King</td>
<td>Anthropology/Sociology</td>
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<td>Greg A. Kost</td>
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<td>William N. Locke</td>
<td>Physical Education</td>
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<td>Michael Metcalf</td>
<td>Emergency Medical Technology</td>
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<td>Jeannine Moline</td>
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<td>James O’Connor</td>
<td>Industrial Arts</td>
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<tr>
<td>Karen O’Connor</td>
<td>Business Office Technology/Computer Science</td>
<td>Professor</td>
<td>Instrutor’s Diploma Vancouver Vocational</td>
<td>M Ed Simon Fraser University</td>
</tr>
</tbody>
</table>
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KEY TERMS

Advisory:
Skills or courses that are not prerequisites but are highly recommended for student success.

Assessment:
The process of collecting student information through standardized tests, academic transcripts, surveys, and interviews for the purpose of assisting students with the development of educational plans.

Associate in Arts, AA:
General degree granted by California Community Colleges.

Associate in Science, AS:
General degree granted by California Community Colleges requiring significant work within a specific major, often an occupational major.

Bachelor’s Degree:
Degree granted by four-year colleges, usually the Bachelor of Arts (BA) or the Bachelor of Science (BS).

Catalog Rights:
Refers to the right of the student to elect to meet the graduation requirements in effect the academic year of first enrollment, as long as continuous enrollment is maintained, or at the time of graduation.

Certificate:
A formal instructional program of less than 60 semester units that is designed to prepare students for a specific field of endeavor, typically a career field with prospects of employment.

Cheating:
The act of obtaining or attempting to obtain or aiding another to obtain academic credit for work by the use of any dishonest, deceptive or fraudulent means.

Class Schedule:
The listing of courses including hours, instructor, and room assignments to be offered each semester.

Co-requisite:
Skills or courses which are required to be taken simultaneously with another course.

College Level Examination Program:
A means through which academic credit may be given for nontraditional forms of educational experience.

Credit Course:
A course for which units are granted.

Credit/No Credit Grading:
A grading system allowing a course to be taken for a grade of Credit or No Credit rather than for a letter grade of “A”, “B”, “C”, “D”, or “F”.

Degree:
A formal instructional program of 60 semester units that includes in-depth instruction in a specific subject along with a group of general education courses.

Electives:
Courses elected by the student which do not fulfill any specific requirement but provide units toward a degree.

General Education:
Certain groups of courses required of all degree candidates regardless of their major.

Grade Point Average (GPA):
The average of a student’s grades, defined as total grade points earned divided by total semester units attempted. “Total grade points earned” is obtained by multiplying the grade point value of the specific letter grade (“A” = 4.0) by the unit value of the course.

Lower Division:
The first two years of college work, i.e., freshman- and sophomore-level courses. By law, only lower division work can be offered by Cerro Coso Community College.

Major:
A specific program of study a student plans to pursue.
**KEY TERMS**

**Matriculation:**
The process of assisting students in establishing appropriate educational goals and providing support services to help them to achieve these goals.

**Orientation:**
The process of informing the student of college procedures, course scheduling, academic expectations, financial assistance and other relevant issues.

**Pass/No Pass Grading:**
A grading system allowing a course to be taken for a grade of P (Pass) or NP (No Pass) rather than for a letter grade of “A”, “B”, “C”, “D”, or “F”. This allows students to take courses outside of their major field without the risk of jeopardizing their grade point average.

**Placement:**
The process of advising a student to enroll into a particular course based on prerequisites, valid standardized tests, and other multiple measures.

**Plagiarism:**
The act of using the ideas or work of another person or persons as if they were one’s own, without giving credit to the source.

**Prerequisite:**
A requirement which must be completed prior to enrollment in a course. Prerequisites are listed in the course description.

**Repeatability:**
Courses that are designed to build skills may be taken more than one time. The number of times a course may be taken, if more than once, is indicated in the course catalog description.

**Semester Unit:**
In general, 54 hours of student work which can be lecture, laboratory, or a combination of both lecture and laboratory. Graduation requires 60 semester units. Courses in this catalog are indicated in semester units and total hours of instruction. Generally, a “unit” equals 18 hours of lecture or 54 hours of lab work or activity per semester.

**Student Education Plan:**
A plan developed for each student which identifies the student’s educational objectives and the courses, services, and programs to be used to achieve them. These plans are to be on file in the Counseling Center.

**Transcript:**
A copy of a student’s college record prepared by the Admissions and Records Office.

**Upper Division:**
The last two years of college work, i.e., junior- and senior-level courses. Upper division work is not offered by or generally accepted in transfer at Cerro Coso Community College.
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If this material is needed in alternate format for people with disabilities, please contact Special Services at (760) 384-6250.

Disclaimer
Cerro Coso Community College reserves the right to modify its programs, tuitions and fees, admission and graduation requirements, schedules, and other policies, procedures and regulations stated in this catalog without notice.

Cerro Coso Community College is a member of the Kern Community College District
Credits Transferred from Other Institutions
-Revised Page 31

Cerro Coso Community College only accepts transfer credits from schools that are accredited by Regional Accrediting Commissions of Schools and Colleges. Transcripts from foreign institutions must be evaluated by an approved international academic credential evaluation service. Information is available at the counseling office.

Credit earned from other regionally accredited institutions may be transferred to Cerro Coso Community College upon admission. Students will provide official transcripts in a sealed envelope from the institution or electronically through e-transcripts California. Transcripts submitted become the property of Cerro Coso Community College and cannot be returned to the student nor be forwarded to another institution. Students planning to graduate or transfer with certification from Cerro Coso Community College, or needing to use courses from another college/university as a prerequisite, must submit all official transcripts to Cerro Coso Community College. Transcripts should be sent to:

_Cerro Coso Community College_
_C/O Admissions and Records Office_
_3000 College Heights Blvd._
_Ridgecrest, CA 93555_

An evaluation of submitted transcripts can be requested at the counseling office of the student’s local campus or online at http://www.cerrocoso.edu/studentservices/counseling/.

Evaluations made and credits allowed by Cerro Coso Community College are subject to review and evaluation by any college or university to which a student may transfer.

Non-Accredited Colleges

Transfer credit will be denied in the case where transfer work is completed at an institution that is not accredited or is not accredited by a recognized accrediting body.
Military Credit
/Addition to Page 33

Servicemembers Opportunity Colleges (SOC)

Cerro Coso Community College participates as a Servicemember’s Opportunity College (SOC). As an SOC, Cerro Coso has adopted policies and practices that are fair, equitable, and effective in recognizing the special and often limiting conditions faced by military students. Cerro Coso agrees to transfer practices for servicemembers that minimizes the loss of credit and avoids duplication of course work, while maintaining the integrity of college programs.

Pass/No Pass Grading
/Correction to Page 34

3. A student must file or rescind a petition in the Office of Admissions and Records to take a course under P/NP grading no later than the first 30% of the term.

Graduation with Honors
/Replaced Section on Page 35

Students who have earned academic distinction during their progress toward a degree are graduated with honors. Honors graduates must have earned a cumulative GPA of 3.75 at the time of degree completion.
ENGLISH AND READING COURSE SEQUENCES

ENGL C020
Literacy Skills

READ C036
Developmental Reading

ENGL C030
Basic Writing Skills

READ C046
Improving Reading skills

ENGL C040
Improving Basic Writing Skills

READ C056
Introduction to College Reading

ENGL C070
Introductory Composition

Additional Transfer Level Courses

ENGL C111 Intro to Types of Literature
ENGL C141 Creative Writing: Fiction & Poetry
ENGL C221 World Literature I
ENGL C222 World Literature II
ENGL C231 Survey of British Literature I
ENGL C232 Survey of British Literature II
ENGL C235 Introduction to Shakespeare
ENGL C241 Survey of American Literature I
ENGL C242 Survey of American Literature II
ENGL C245 Women’s Literature
ENGL C249 Multi-Ethnic American Literature

ENGL C101
Freshman Composition

ENGL C151
Technical Communication

ENGL C102
Critical Thinking Through Literature
MATHEMATICS COURSE SEQUENCES

**AA or AS Option**
- MATH C050 Elementary Algebra
- MATH C055 Intermediate Algebra
  OR
- MATH C056 Technical Math for Trades
- MATH C057 Geometry
- MATH C101 Survey of Mathematical Concepts

**General Transfer Option**
- MATH C050 Elementary Algebra
- MATH C055 Intermediate Algebra
- MATH C056 Technical Math for Trades
- MATH C101 Survey of Mathematical Concepts
- MATH C121 Elementary Probability/Statistics
- MATH C130 Finite Mathematics
- MATH C131 Basic Functions and Calculus for Business
- MATH C141 College Algebra

**Mathematics, Science, Engineering Transfer**
- MATH C050 Elementary Algebra
- MATH C055 Intermediate Algebra
- MATH C056 Technical Math for Trades
- MATH C057 Geometry
- MATH C121 Elementary Probability/Statistics
- MATH C141 College Algebra
- MATH C142 Trigonometry
- MATH C151 Analytic Geometry and Calculus
- MATH C152 Analytic Geometry and Calculus II
- MATH C155 Ordinary Differential Equations
- MATH C251 Analytic Geometry and Calculus III
- MATH C255 Ordinary Differential Equations
- MATH C257 Linear Algebra
### Table A-General Education Requirements-AA/AS Degree

#### Area 1: Natural Science
(Choose one of the following two options):

**OPTION I:** Two courses/minimum 6 units; at least one course from each area (life and physical science).

**OPTION II:** One course/minimum 4 units; lecture with corresponding lab from either area (life or physical science).

**Life Sciences:**
- ANTH C121
- BIOL C101
- BIOL C101H
- BIOL C105 (L)
- BIOL C105H
- BIOL C111 (L)
- BIOL C111H (L)
- BIOL C112 (L)
- BIOL C112H (L)
- BIOL C121
- BIOL C122 (L)
- BIOL C125 (L)
- BIOL C141
- BIOL C142 (L)
- BIOL C145
- BIOL C255 (L)
- BIOL C255 (L)
- BIOL C261 (L)

**Physical Sciences:**
- CHEM C101 (L)
- CHEM C111 (L)
- CHEM C113 (L)
- CHEM C113H (L)
- CHEM C221 (L)
- CHEM C223 (L)
- CHEM C223H (L)
- GEOG C101
- GEOG C102 (L)
- GEOG C111 (L)
- GEOG C111 (L)
- GEOL C111 (L)
- PHSC C101
- PHSC C102 (L)
- PHSC C105
- PHSC C110
- PHSC C111
- PHSC C112
- PHSC C115 (L)
- PHSC C121
- PHSC C122 (L)
- PHSC C125 (L)
- PHSC C131
- PHSC C132 (L)
- PHYS C111 (L)
- PHYS C113
- PHYS C211

#### Area 2: Social & Behavioral Sciences
Two courses/min. 6 units/each course from different subgroup.

**Social:**
- ADMJ C101
- ANTH C111
- ANTH C121
- ANTH C131
- CHDV C104
- CHDV C105
- CHDV C106
- GEOG C131
- PSYC C101
- PSYC C101H
- PSYC C110H
- PSYC C112
- PSYC C112
- PSYC C112
- PSYC C112
- PSYC C211
- PSYC C212
- PSYC C212
- PSYC C241
- PSYC C241
- PSYC C251
- PSYC C251
- SOCI C101
- SOCI C131 (D)

**Economics & Political:**
- ECON C101
- ECON C102
- ECON C103
- POLS C101
- POLS C101
- POLS C101
- POLS C101
- POLS C101
- POLS C101
- POLS C204

**Historical:**
- HIST C103
- HIST C103H
- HIST C104
- HIST C104H
- HIST C131
- HIST C131H
- HIST C132
- HIST C132H
- HIST C218

**Interdisciplinary Studies:**
- FILM/SPAN C211
- SOCI C210 (D)
- SOCI C220 (D)

**Ethnic Studies:**
- HIST C209 (D)

#### Area 3: Humanities
Two courses/min. 6 units/each course from different subgroups.

**Active Participation:**
- ART C111
- ART C115

**Interdisciplinary Studies:**
- FILM/SPAN C211
- SOCI C210 (D)
- SOCI C220 (D)

**Literature:**
- ENGL C102
- ENGL C102H
- ENGL C102H
- ENGL C111
- ENGL C111H
- ENGL C112
- ENGL C112H
- ENGL C212
- ENGL C212H
- ENGL C222
- ENGL C222H
- ENGL C231
- ENGL C231H
- ENGL C232
- ENGL C232H
- ENGL C235
- ENGL C235H
- ENGL C241
- ENGL C241H
- ENGL C242
- ENGL C242H
- ENGL C245 (D)
- ENGL C245H (D)
- ENGL C249 (D)
- ENGL C249H (D)

**Philosophy:**
- PHIL C101
- PHIL C102
- PHIL C141
- PHIL C141
- PHIL C141
- PHIL C151
- PHIL C165
- PHIL C231
- ENGL C141
- MUSC C121
- MUSC C122
- MUSC C126
- MUSC C131
- MUSC C132
- MUSC C135
- MUSC C136
- MUSC C151
- MUSC C152
- THEA C105
- THEA C111
- THEA C112
- THEA C118
- THEA C121
- THEA C126
- THEA C131
- THEA C131
- THEA C140
- THEA C145
- THEA C211
- THEA C212
- THEA C230
- THEA C241

**Foreign Language:**
- ASL C101
- ASL C102
- FREN C101
- LATN C101
- LATN C102
- LATN C201
- LATN C202
- SPAN C100
- SPAN C101
- SPAN C102
- SPAN C110
- SPAN C171
- SPAN C180

**Interdisciplinary Studies:**
- ART C112
- ART C131
- ART C141
- ART C151
- ART C165
- ART C231
- ENGL C141
- MUSC C121
- MUSC C122
- MUSC C126
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- THEA C126
- THEA C131
- THEA C131
- THEA C140
- THEA C145
- THEA C211
- THEA C212
- THEA C230
- THEA C241

#### Area 4: Language & Rationality
Two courses/min. 6 units/one course from each group-“C” or Better.

**English Composition:**
- ENGL C101
- ENGL C101H
- ENGL C151

**Analytical Thinking:**
- ENGL C102
- MATH C055
- MATH C056
- MATH C057
- MATH C101
- MATH C121
- MATH C123H
- MATH C130
- MATH C131
- MATH C141
- MATH C142
- MATH C151
- MATH C255
- MATH C257
- PHIL C215

#### Area 5: Information Competency
One course/minimum 1 unit or pass IC Proficiency Exam.

**IC C075**
- PROFICIENCY EXAM

#### Area 6: Diversity
One of the following courses or any diversity general education class (D).

**Diversity:**
- ART C101
- BSAD C152
- CHDV C125
- CHDV C241
- DMA C113
- ENGL C245
- ENGL C245H
- ENGL C249
- ENGL C249H
- FILM/SPAN C211
- HCRS C250
- HIST C209
- HMSV C102
- MUSC C173
- SOCI C131
- SOCI C210
- SOCI C220

#### Area 7: Health & Wellness
Choose from the following options:

**OPTION I:** One course from the following:
- CHDV C121
- HCRS C121
- HSCI C101
- PSYC C231

**OPTION II:** Completion of one of the following:

a) PHED C102 and ONE 1-unit P.E. Activity Class

b) THREE 1-unit P.E. Activity Classes

---

**Note:** This table outlines the general education requirements for an AA/AS degree, including courses from various disciplines such as natural science, social & behavioral sciences, humanities, and more. Each category is detailed with specific course listings and requirements for fulfilling the degree's requirements.
### TABLE B – CSU GENERAL EDUCATION CERTIFICATION

#### AREA A: ENGLISH LANGUAGE COMMUNICATION & CRITICAL THINKING

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH C121</td>
<td>Anthropology &amp; Archeology</td>
</tr>
<tr>
<td>BIOL C101</td>
<td>Physical Science</td>
</tr>
<tr>
<td>BIOL C101H</td>
<td>Physical Science</td>
</tr>
<tr>
<td>BIOL C105+</td>
<td>Physical Science</td>
</tr>
<tr>
<td>BIOL C105H+</td>
<td>Physical Science</td>
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<tr>
<td>BIOL C111+</td>
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<tr>
<td>BIOL C112H+</td>
<td>Physical Science</td>
</tr>
<tr>
<td>BIOL C251+</td>
<td>Physical Science</td>
</tr>
<tr>
<td>BIOL C255+</td>
<td>Physical Science</td>
</tr>
<tr>
<td>BIOL C261+</td>
<td>Physical Science</td>
</tr>
</tbody>
</table>

3 courses; minimum 9 units required.

Complete ONE course in Area A1, A2 and A3 with a grade of "C" or better.

#### A1. Oral Communication

- SPCH C101
- SPCH C105

#### A2. Written Communication

- ENGL C101
- ENGL C101H
- CLEP

#### A3. Critical Thinking

- ENGL C102
- ENGL C102H
- PHIL C205

#### AREA B: SCIENTIFIC INQUIRY & QUANTITATIVE REASONING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH C121</td>
<td>Mathematics/Quantitative Reasoning</td>
</tr>
<tr>
<td>MATH C121H</td>
<td>Mathematics/Quantitative Reasoning</td>
</tr>
<tr>
<td>MATH C130</td>
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<tr>
<td>MATH C141</td>
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<td>MATH C142</td>
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<td>MATH C151</td>
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<tr>
<td>MATH C257</td>
<td>Mathematics/Quantitative Reasoning</td>
</tr>
<tr>
<td>CLEP</td>
<td>Mathematics/Quantitative Reasoning</td>
</tr>
</tbody>
</table>

3 courses; minimum 10 units required.

Complete ONE course in Area B1 and ONE course from Area B2; one course MUST have corresponding lab.

Complete ONE Math course from Area B4 with a grade of "C" or better.

#### B1. Physical Science

- CHEM C101+ |
- CHEM C111+ |
- CHEM C113+ |
- CHEM C113H+ |
- CHEM C221+ |
- GEOG C101 |
- GEOG C111+ |
- GEOG C111 |
- PHSC C101 |
- PHSC C105 |
- PHSC C111 |
- PHSC C115 |
- PHSC C121 |
- PHSC C125+ |
- PHSC C131 |
- PHYS C111+ |
- PHYS C113+ |
- PHYS C221+ |

#### B2. Life Science

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
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<tr>
<td>MUSC C101</td>
<td>Music</td>
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<td>MUSC C101H</td>
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<td>THEA C101</td>
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<td>THEA C121</td>
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#### B3. Laboratory

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIOL C122</td>
<td>Biology</td>
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<tr>
<td>BIOL C125</td>
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<tr>
<td>BIOL C142</td>
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<tr>
<td>BIOL C145</td>
<td>Biology</td>
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<tr>
<td>GEOG C102</td>
<td>Geog</td>
</tr>
<tr>
<td>PHSC C102</td>
<td>Physical Science</td>
</tr>
<tr>
<td>PHSC C105</td>
<td>Physical Science</td>
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<tr>
<td>PHSC C112</td>
<td>Physical Science</td>
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<tr>
<td>PHSC C115</td>
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<tr>
<td>CLEP</td>
<td>Laboratory</td>
</tr>
</tbody>
</table>

#### B4. Mathematics/Quantitative Reasoning

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ASL C101</td>
<td>American Sign Language</td>
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<tr>
<td>ASL C102</td>
<td>American Sign Language</td>
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<tr>
<td>ENGL C111</td>
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</tr>
<tr>
<td>ENGL C111H</td>
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<tr>
<td>ENGL C232H</td>
<td>English</td>
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<tr>
<td>ENGL C233</td>
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</tr>
<tr>
<td>ENGL C233H</td>
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<tr>
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<td>ENGL C241H</td>
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<td>ENGL C243H</td>
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<td>ENGL C244H</td>
<td>English</td>
</tr>
<tr>
<td>FILM C211</td>
<td>Film</td>
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<tr>
<td>FREN C101</td>
<td>French</td>
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<td>HIST C224</td>
<td>History</td>
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<td>LATN C201</td>
<td>Latin</td>
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<td>PSYC C205</td>
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#### C2. Humanities

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<tr>
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<td>Psychology</td>
</tr>
<tr>
<td>PSYC C221</td>
<td>Psychology</td>
</tr>
</tbody>
</table>

3 courses; minimum 9 units required.

Select ONE course from THREE DIFFERENT sub-groups.

#### D1. Anthropology & Archeology

- ANTH C111
- ANTH C121
- ANTH C131

#### D2. Economics

- ECON C101
- ECON C101H
- ECON C102

#### D3. Ethnic Studies

- HIST C209
- SOCI C210
- SOCI C220

#### D4. Gender Studies

- SOCI C220
- SOCI C131

#### D5. Geography

- GEOG C131

#### D6. History

- HIST C103
- HIST C103H
- HIST C104
- HIST C104H
- HIST C131
- HIST C131H
- HIST C132
- HIST C132H
- HIST C209
- HIST C218
- CLEP

#### D7. Interdisciplinary Social or Behavioral Science

- CHDV C106
- CHDV C105
- CHDV C104
- CHDV C104H
- CHDV C131
- CHDV C131H
- CHDV C132
- CHDV C132H
- CHDV C209
- CHDV C218
- CLEP

#### U.S. HISTORY, CONSTITUTION & GOVERNMENT REQUIREMENT

The CSU system requires students to demonstrate their competence in U.S. History, Constitution and State, and Local Government (Title V, Admin. Code, Section 40404).

#### D8. Political Science & Government

- POLS C102
- POLS C204

#### E1. Integrated Organism

- CHDV C106
- HSCI C101
- PSYC C211
- PSYC C231
- PSYC C251

#### E2. Activity

TWO Physical Education ACTIVITY courses.

#### U.S. HISTORY, CONSTITUTION & GOVERNMENT REQUIREMENT

The CSU system requires students to demonstrate their competence in U.S. History, Constitution and State, and Local Government (Title V, Admin. Code, Section 40404).

#### D10. Sociology & Criminology

- ADMP C101
- SOCI C101
- SOCI C210
- CLEP

#### E1. Integrated Organism

- CHDV C106
- HSCI C101
- PSYC C211
- PSYC C231
- PSYC C251

#### E2. Activity

TWO Physical Education ACTIVITY courses.

#### U.S. HISTORY, CONSTITUTION & GOVERNMENT REQUIREMENT

The CSU system requires students to demonstrate their competence in U.S. History, Constitution and State, and Local Government (Title V, Admin. Code, Section 40404).

#### D8. Political Science & Government

- POLS C102
- POLS C204

#### D9. Psychology

- PSYC C101
- PSYC C101H
- PSYC C211
- PSYC C231
**TABLE C – INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM**

**AREA 1: ENGLISH COMMUNICATION**

UC: 2 courses/minimum 6 semester units; ONE course from A and ONE from B.

CSU: 3 courses/minimum 9 units; Complete ONE course in Area A, B and C with a grade of “C” or better.

A. English Composition
- ENGL C101
- ENGL C101H
- CLEP (CSU only)
- AP

B. Critical Thinking-English Composition
- ENGL C102
- ENGL C102H

C. Oral Communication
- Required for CSU transfer only.

- SPCH C101
- SPCH C105

**AREA 2: MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING**

1 course; minimum 3 units required.

Must be completed with a grade of “C” or better.

Math
- MATH C121
- MATH C121H
- MATH C130
- MATH C131
- MATH C141
- MATH C151
- MATH C152
- MATH C251
- MATH C255
- MATH C257
- AP

**AREA 3: ARTS & HUMANITIES**

3 courses; minimum 9 units required.

Select ONE course from Area 3A and ONE from Area 3B. Select a THIRD from either area.

A. Arts
- ART C101
- ART C105
- ART C106
- ART C106H
- MUSC C101
- MUSC C101H
- MUSC C118
- MUSC C173
- THEA C101
- THEA C103
- AP

B. Humanities
- ENGL C111
- ENGL C111H
- ENGL C190
- ENGL C221
- ENGL C221H
- ENGL C222
- ENGL C222H
- ENGL C231
- ENGL C231H
- ENGL C232
- ENGL C232H
- ENGL C235
- ENGL C235H
- ENGL C241
- ENGL C241H
- ENGL C242
- ENGL C242H
- ENGL C245
- ENGL C245H
- ENGL C249
- ENGL C249H
- FILM C211
- HIST C103
- HIST C103H
- HIST C104
- HIST C104H
- HIST C209
- LATN C201
- LATNC202
- PHIL C101
- PHIL C141
- PHIL C161
- PHIL C164
- PHIL C215
- SPAN C211
- AP

**AREA 4: SOCIAL & BEHAVIORAL SCIENCES**

3 courses; minimum 9 units required.

Select ONE course from at least TWO DIFFERENT subgroups.

A. Anthropology/Archaeology
- ANTH C111
- ANTH C121
- ANTH C131

**AREA 5: PHYSICAL & BIOLOGICAL SCIENCES**

2 courses; minimum 7 units required.

Select ONE course from Physical Sciences and ONE course from Biological Sciences. One of the courses from either group MUST be taken with its corresponding lab. Lab courses taken before the corresponding lecture WILL NOT be accepted.

**AREA 6: LANGUAGE OTHER THAN ENGLISH**

Required for transfer to UC only.

Proficiency equivalent to two years of high school study in the same language with a “C” or better OR select ONE of the following courses.

Language Other Than English
- ASL C101
- ASL C102

**U. S. HISTORY CONSTITUTION & AMERICAN IDEALS**

CSU Graduation requirement only.

NOTE: Courses used to meet this requirement may be used to satisfy requirements for IGETC. It is at the discretion of each CSU campus to allow double-counting in this area and AREA 4.

1. Constitution
- POLS C101
- POLS C101H

2. History
- HIST C131
- HIST C131H
- HIST C132
- HIST C132H

IMPORT NT INFORMAT ION & NOTES

ALL courses completed for IGETC MUST be completed with a “C” or better. Each course must have a minimum of 3 semester/4 quarter units. UC credit may be limited.

1) No credit given for an introductory course if it was taken after the more advanced course;

2) Credit may be limited for course with overlapping content;

3) Duplicate credit WILL NOT be awarded for both the Honors and regular section of a course. Certification is NOT a UC admission requirement or guarantee.
PROGRAMS OF STUDY

Business Office Technology Associate in Science Degree - Revision
Business Office Technology Certificate of Achievement - Revision
Business Office Technology Administrative Office Assistant Certificate of Achievement - Revision
Business Office Technology Office Clerk Certificate of Achievement - Revision
Child Development Associate Teacher Certificate of Achievement - Revision
Emergency Medical Technician Job Skills Certificate - New
Fire Technology Associate of Science Degree – Not Offered
Fire Technology Certificate of Achievement – Not Offered
Kinesiology Associate in Arts Degree for Transfer (AA-T) – New
Liberal Arts: Arts & Humanities Associate of Arts Degree – Revision
Liberal Arts: Social & Behavioral Sciences Associate of Arts Degree – Revision
Machine Tool Technology Associate of Science Degree – Not Offered
Machine Tool Technology Certificate of Achievement – Not Offered
Mathematics Associate in Science Degree for Transfer (AS-T) – Revision
Studio Arts Associate in Arts Degree for Transfer (AA-T) – New
**Business Office Technology Associate in Science Degree - Revision**

The Business Office Technology Associate in Science Degree (60 units total, 30 units in the major) prepares learners for challenging positions as administrative assistants and office managers through courses in communication, industry standard computer applications, business, and bookkeeping in order to meet the needs of the technologically dynamic office.

This degree is not specifically designed for transfer. Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. If you plan to transfer, consult a counselor and [http://www.assist.org/](http://www.assist.org/) to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

**Program Learning Outcomes**

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

- Achieve business standards for efficiency, time management, and quality of work while projecting a professional image including ethical standards with respect to privacy, confidentiality, and personal behavior both independently and in group situations.
- Apply fundamental principles of spelling, grammar, and punctuation to a wide variety of business communication messages, documents, and reports appropriate for the intended audience.
- Select, apply, and adapt computer software tools such as word processing, spreadsheet, data base, accounting, presentation, and desktop publishing to business related tasks and assess the logic of the results.
- Analyze and record a variety of business financial transactions such as petty cash, bank deposits, accounts receivable, and accounts payable.
- Apply standard records management procedures when establishing and maintaining systems to classify, organize, store, and retrieve hard copy and electronic files.
- Demonstrate active listening skills to accurately condense and record verbal information, instructions, and ideas.

**Courses**

*Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.*

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD C070</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C072</td>
<td>Introduction to Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BSAD C145</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BSOT C100</td>
<td>Intro. To Business Office Technology</td>
<td>3</td>
</tr>
<tr>
<td>BSOT C127</td>
<td>MS PowerPoint</td>
<td>1</td>
</tr>
<tr>
<td>BSOT C132</td>
<td>Intermediate Computer Keyboarding</td>
<td>1</td>
</tr>
<tr>
<td>BSOT C133</td>
<td>Advanced Computer Keyboarding</td>
<td>1</td>
</tr>
<tr>
<td>BSOT C154</td>
<td>Office Personnel Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CSCI C070</td>
<td>Computer Literacy</td>
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Select 4 units from the following courses:

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<tr>
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<tbody>
<tr>
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<tr>
<td>CSCI C135</td>
<td>Beginning Adobe Acrobat</td>
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<tr>
<td>CSCI C163</td>
<td>Advanced Excel</td>
</tr>
<tr>
<td>CSCI C165</td>
<td>Advanced Access</td>
</tr>
<tr>
<td>CSCI C171</td>
<td>Introduction to the Internet and the World Wide Web</td>
</tr>
</tbody>
</table>

Complete one of the following general education patterns:

- **OPTION A** Cerro Coso Local General Education Pattern
- **OPTION B** CSU General Education Breadth
- **OPTION C** IGETC - Intersegmental General Education Transfer Curriculum
Business Office Technology Certificate of Achievement - Revision

The Business Office Technology Certificate of Achievement (30 units) is designed to prepare learners for employment in challenging positions as administrative assistants and office managers through courses in communication, industry standard computer applications, business, office procedures, and bookkeeping in order to meet the needs of the technologically dynamic office.

Complete each course to be applied toward the certificate with a “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Achieve business standards for efficiency, time management, and quality of work while projecting a professional image including ethical standards with respect to privacy, confidentiality, and personal behavior both independently and in group situations.

- Apply fundamental principles of spelling, grammar, and punctuation to a wide variety of business communication messages, documents, and reports appropriate for the intended audience.

- Select, apply, and adapt computer software tools such as word processing, spreadsheet, data base, accounting, presentation, and desktop publishing, to business related tasks and assess the logic of the results.

- Analyze and record a variety of business financial transactions such as petty cash, bank deposits, accounts receivable, and accounts payable.

- Apply standard records management procedures when establishing and maintaining systems to classify, organize, store, and retrieve hard copy and electronic files.

- Demonstrate active listening skills to accurately condense and record verbal information, instructions, and ideas.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

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<td>Business Communication</td>
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Disclosures
Gainful Employment information for this program may be found at http://www.cerrocoso.edu/ academic-programs/.
Business Office Technology – Administrative Office Assistant Certificate of Achievement - Revision

Business Office Technology Office Assistant Certificate of Achievement (18 units): This course of study equips the student with the range of skills necessary to perform the duties of an entry level administrative assistant in today’s technological office. Completers master skills in communication, bookkeeping, office skills, and an essential selection of intermediate computer applications for business. Those completing the Office Assistant Certificate may choose to continue with the Business Office Technology Associate in Science Degree.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

• Achieve business standards for efficiency, time management, and quality of work while projecting a professional image including ethical standards with respect to privacy, confidentiality, and personal behavior both independently and in group situations.

• Apply fundamental principles of spelling, grammar, and punctuation to a wide variety of business communication messages, documents, and reports, appropriate for the intended audience.

• Demonstrate intermediate skills and problem solving ability in the use of industry standard applications and technology such as Microsoft Word, Excel, Access, and PowerPoint, to office related tasks.

• Analyze and record a variety of business financial transactions such as petty cash, bank deposits, accounts receivable, and accounts payable.

• Apply standard records management procedures when establishing and maintaining systems to classify, organize, store, and retrieve hard copy and electronic files.

• Demonstrate active listening skills to accurately condense and record verbal information, instructions, and ideas.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

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<tr>
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<tr>
<td>CSCI C135</td>
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</tbody>
</table>
Business Office Technology –
Office Clerk Certificate of
Achievement – Revision

Business Office Technology Office Clerk Certificate of Achievement (12 units): This course of study prepares the student to perform basic competencies as an entry level office clerk whether or not the individual has previous office experience. This certificate of achievement is a foundation for the Office Assistant Certificate and the Business Office Technology Certificate or Associate of Science Degree.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

• Achieve business standards for efficiency, time management, and quality of work while projecting a professional image including ethical standards with respect to privacy, confidentiality, and personal behavior both independently and in group situations.

• Demonstrate introductory skills in the use of software tools such as Microsoft Word, Excel, and Access, to entry level office related tasks such as letter and report creation, basic spreadsheet creation/edit, and data entry.

• Apply standard records management procedures when establishing and maintaining systems to classify, organize, store, and retrieve hard copy and electronic files.

• Demonstrate active listening skills to accurately condense and record verbal information, instructions, and ideas.

• Demonstrate accuracy and efficiency using a desktop calculator to perform business Mathematics calculations appropriate for routine office tasks requiring calculation.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

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</tr>
</thead>
<tbody>
<tr>
<td>BSAD C070</td>
<td>Business Mathematics</td>
<td>3</td>
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<tr>
<td>BSOT C127</td>
<td>Microsoft PowerPoint</td>
<td>1</td>
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<tr>
<td>BSOT C131</td>
<td>Basic Computer Keyboarding</td>
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<tr>
<td>BSOT C154</td>
<td>Office Personnel Seminar</td>
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<td>CSCI C070</td>
<td>Computer Literacy</td>
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<td>CSCI C121</td>
<td>Beginning Word</td>
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<td>CSCI C123</td>
<td>Beginning Excel</td>
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</tr>
<tr>
<td>CSCI C125</td>
<td>Beginning Access</td>
<td>1</td>
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</tbody>
</table>
Child Development Associate Teacher Certificate of Achievement - Revision

The Child Development Associate Teacher Certificate of Achievement (12 units) is designed to provide students with the minimal level of education to work with children in a group setting and includes required classes in the core areas (development; child, family, and community; curriculum).

The California Child Development Permit Matrix requirements are reflected in our program allowing students to qualify for the permits required or teaching in programs governed by Title V and funded by contracts with the State of California. Permits are issued by the State Department of Education, California Commission on Teacher Credentialing (not Cerro Coso) and include: Assistant Teacher and Associate Teacher.

All professionals working with children are required to have a clean criminal record, to demonstrate freedom from tuberculosis (TB), and to demonstrate the physical ability to perform all of the duties of a professional position working directly with children.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 12 units in residence at Cerro Coso Community College.

The requirements for this program are complex. You MUST meet with a Child Development faculty member AND a counselor.

Program learning outcomes
Upon successful completion of the program, the student will be able to

- Understand, observe, analyze development from a theoretical perspective including the realms of physical, socio-emotional, and cognitive development from conception through adolescence.
- Develop curriculum appropriate to the individual developmental needs of children from infancy through school-age and across a variety of categories: aesthetic, affective, cognitive, language, physical, and social.
- Demonstrate classroom management skills working with both small and large groups of children.
- Assess and practice a variety of program models.
- Address diversity issues, including special needs, with children, families, and programs in a constructive way.
- Take a leadership role in both the profession of Child Development and the in the community through an understanding of advocacy.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV C100</td>
<td>Principles and Practices of Teaching</td>
<td>3</td>
</tr>
<tr>
<td>CHDV C102</td>
<td>Introduction to Materials and Curriculum</td>
<td></td>
</tr>
<tr>
<td>CHDV C104</td>
<td>Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>CHDV C106</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Permit
STATE OF CALIFORNIA CHILD DEVELOPMENT PERMIT:
The California Commission on Teacher Credentialing grants permits in accordance with the Child Development Permit Matrix. Applications are separate from Cerro Coso Community College and must be submitted to California Commission on Teacher Credentialing. Contact any Child Development faculty member or visit the California Commission on Teacher Credentialing website at [http://www.ctc.ca.gov](http://www.ctc.ca.gov) for more information regarding the Permit Matrix and Professional Growth Advisors. For all Permits, all course work must be completed with a grade of “C” or better.

Associate Teacher Permit: Associate Teacher Certificate of Proficiency requirements plus experience requirement of 50 days of 3+ hours per day within 2 years.
Emergency Medical Technician 
Job Skills Certificate - New

The Emergency Medical Technician job certificate (7 units) is designed to provide career pathways into Emergency Medical Services through pre-hospital and clinical education from basic body systems to the intricate and often changing emergent medical care provided to the sick and injured. Successful completion of this job certificate provides a wide range of components for those interested in entering the job market directly or progressing to Paramedic, nursing or moving into pre-medicine to become a Physician Assistant or Medical Doctor.

Complete each course to be applied toward the certificate with a grade of “C” or better. Complete a minimum of 6.5 units in residence at Cerro Coso Community College.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Identify the correct sequence of assessments and treatments for patients experiencing cardiopulmonary arrest.
- Identify the etiology, pathophysiology and signs and symptoms of disorders of all body systems.
- Identify critical medical patient conditions using standardized medical patient assessments.
- Identify critical traumatic patient conditions using standardized trauma patient assessments.
- Demonstrate leadership during the management of critical patient conditions.
- Demonstrate the ability to utilize resources to resolve medical and trauma patient conditions.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMTC C070</td>
<td>CPR for the Healthcare Provider</td>
<td>0.5</td>
</tr>
<tr>
<td>EMTC C105</td>
<td>Emergency Medical Technician</td>
<td>6.5</td>
</tr>
</tbody>
</table>
Kinesiology Associate in Arts Degree for Transfer (AA-T) – New

The Associate in Arts Degree in Kinesiology for Transfer (60 units total, 23-24 units in major) prepares students for transfer to baccalaureate institutions, where they may complete a Bachelor’s degree in Kinesiology or related disciplines. This program is designed to provide students with an introduction to the academic discipline dealing with the art and science contained in human movement. The course of study provides a foundation in the fundamentals of human anatomy, physiology, movement, and the refinement of individual fitness and sport related skills. Opportunities are provided for students to expand their understanding and expertise in a variety of areas. To complete the degree, students must fulfill both of the following requirements:

1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the Kern Community College District Board of Trustees.

2. Obtainment of a minimum grade point average of 2.0

Please note that our local Cerro Coso general education pattern MAY NOT be used to fulfill the requirements of this degree and that all required Courses for the degree must be transferable to CSU.

Program Learning Outcomes

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

- Analyze the anatomical and physiological principles of human movement in exercise and sport settings.
- Explain the structure and function of the human body.
- Apply the principles of physical fitness development and maintenance and assess the body’s systematic responses to physical activity.
- Define the importance and benefits of life-long physical activity and wellness.
- Apply techniques of, and demonstrate an advanced level of knowledge, in at least three areas of physical sport skills.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete the following courses:

- BIOL C251 Human Anatomy ........................................ 4 Units
- BIOL C255 Human Physiology ..................................... 4
- PHED C101 Introduction to Kinesiology ....................... 3

Choose a minimum of 12 units from below with at least 3 units from Area A:

Area A - Movement Based Courses: (maximum 3) select a maximum of one (1) course from any three (3) of the following areas for a maximum of three units:

- Fitness
  - PHED C103 Aerobic Dance I ....................................... 1 Units
  - PHED C104 Aerobic Dance II ..................................... 1
  - PHED C105 Weight Training I ................................... 1
  - PHED C106 Weight Training II ................................... 1
  - PHED C107 General Conditioning I ............................. 1
  - PHED C108 General Conditioning II ............................. 1

- Individual Sports
  - PHED C109 Golf I .................................................. 1 Units
  - PHED C110 Golf II .................................................. 1
  - PHED C113 Tennis I ............................................... 1
  - PHED C114 Tennis II .............................................. 1

- Team Sports
  - PHED C115 Volleyball I ......................................... 1 Units
  - PHED C116 Volleyball II ......................................... 1
  - PHED C123 Softball I .............................................. 1
  - PHED C124 Softball II .............................................. 1

Area B – ADDITIONAL PROGRAM REQUIREMENTS: Select two courses (9-10 units) from the below listed course offerings:

- CHEM C111 General Inorganic Chemistry I .................. 5 Units
- CHEM C221 Organic Chemistry I ................................. 5
- MATH C121 Elementary Probability and Statistics ....... 4
- MATH C121H Elementary Probability/Statistics Honors ... 5
- PHYS C111 Mechanics.................................................. 5

Complete one of the following general education patterns:

- OPTION B CSU General Education Breadth
- OPTION C IGETC - Intersegmental General Education Transfer Curriculum
Liberal Arts: Arts & Humanities - Revision

The Liberal Arts: Arts & Humanities Associate in Arts Degree (60 units total, 18 units in the area of emphasis) is designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in an area of emphasis. This emphasis allows students to satisfy general education requirements as well as focus on transferable coursework. It is ideal for students who plan on transferring to California State University (CSU) or University of California (UC) for a major in education or for a major that Cerro Coso does not offer. Please consult with a counselor for information regarding your intended major at the specific college or university of your choice.

Courses in the Liberal Arts: Arts & Humanities AA degree emphasize the study of cultural, literary, and humanistic activities, and artistic expression of human beings. Students evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. This degree is appropriate for students intending to transfer into such majors as Art History, English, Humanities, and Philosophy. If you have questions about whether this degree is an appropriate choice for your major, please consult with a counselor or educational advisor.

A minimum of 18 units are required in one Area of Emphasis listed below. For depth of study, 2 or more courses in one discipline required. For breadth of study, courses must be taken from 2 or more disciplines within the Area of Emphasis. Courses selected may also be used to fulfill GE areas, refer to each transfer institution policy.

Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. Consult a counselor and visit http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” “C,” or “P” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

Your transfer institution may require some of the major courses to be taken for a grade. Please consult a counselor and http://www.assist.org/ to determine any limitations on Pass/No Pass grading in preparation courses.

Completion of the Cerro Coso Local General Education pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school depending on your transfer goals you should select Option B or C only. Please consult with a counselor or educational advisor if you have any questions about which option is right for you.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Describe how people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation.
- Evaluate the significance of artistic and cultural constructions.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation and verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.
Select at least 18 units from the following courses:

For depth of study, 2 or more courses in one discipline required. For breadth of study, courses must be taken from 2 or more disciplines within the Area of Emphasis.

ART C101 Introduction to Art .................................. 3 Units
ART C105 History of Western Art I .............................. 3
ART C106 History of Western Art II ............................. 3
or ART C106H History of Western Art II – Honors ........ 4
ART C111 Two Dimensional Design ............................. 3
ART C115 3-Dimensional Design ................................. 3
ART C121 Drawing I ............................................. 3
ART C131 Painting I .............................................. 3
ART C141 Ceramics I ............................................. 3
ART C151 Sculpture I .............................................. 3
ART C165 Photography I .......................................... 3
ASL C100 Deaf History ........................................... 3
ASL C101 American Sign Language I ........................... 4
ASL C102 American Sign Language II ........................ 4
ASL C201 Intermediate American Sign Language I .......... 4
ASL C202 Intermediate American Sign Language II ....... 4
ENGL C102 Critical Thinking through Literature .......... 3
or ENGL C102H Critical Thinking Through Literature – Honors .......... 4
ENGL C111 Introduction to Types of Literature .......... 3
or ENGL C111H Introduction to Types of Literature – Honors .................. 4
ENGL C114 Creative Writing: Fiction and Poetry .......... 3
ENGL C119 Art of Fiction ....................................... 3
ENGL C221 World Literature I .................................. 3
or ENGL C221H World Literature I – Honors ............... 4
ENGL C222 World Literature II ................................ 3
or ENGL C222H World Literature II – Honors .......... 4
ENGL C231 Survey of British Literature I:
Beginnings-1785 ............................................. 3
or ENGL C231H Survey of British Literature I:
Beginnings-1785 – Honors ................................. 4
ENGL C232 Survey of British Literature II:
1785–Present ............................................... 3
or ENGL C232H Survey of British Literature II:
1785–Present – Honors .................................. 4
ENGL C235 Introduction to Shakespeare .................. 3
or ENGL C235H Introduction to Shakespeare–Honors
ENGL C241 Survey of American Literature I:
Beginnings-1865 ............................................. 3
or ENGL C241H Survey of American Literature I:
Beginnings-1865 – Honors ................................. 4
ENGL C242 Survey of American Literature II:
1865–Present ............................................... 3
or ENGL C242H Survey of American Literature II:
1865–Present – Honors .................................. 4
ENGL C245 Women’s Literature ............................... 3
or ENGL C245H Women’s Literature – Honors .......... 4
ENGL C249 Multi-Ethnic Literature .......................... 3
or ENGL C249H Multi-Ethnic Literature – Honors ....... 4
FILM C211 Hispanic Cinema ................................ 3
FREN C101 Beginning French I ............................... 5
HIST C103 Western Civilization ................................ 3
or HIST C103H Western Civilization I – Honors ....... 4
HIST C104 Western Civilization II ............................ 3
or HIST C104H Western Civilization II – Honors ....... 4
LATN C101 Elementary Latin I ................................ 4
LATN C102 Elementary Latin II .............................. 4
LATN C201 Intermediate Latin I ................................ 4
LATN C202 Intermediate Latin II .............................. 4
MUSC C101 Music Appreciation .............................. 3
or MUSC C101H Music Appreciation – Honors ......... 4
MUSC C118 History of American Popular Music ......... 3
MUSC C121 Piano I ............................................ 2
MUSC C122 Piano II ............................................ 2
MUSC C126 Guitar ............................................. 2
MUSC C131 Orchestra I ....................................... 2
MUSC C132 Orchestra II ..................................... 2
MUSC C141 Community Band I ................................ 2
MUSC C142 Community Band II .............................. 2
MUSC C151 Choir I ............................................ 2
MUSC C152 Choir II ............................................ 2
MUSC C173 Appreciation of Jazz ............................ 3
PHIL C101 Introduction to Philosophy ................. 3
PHIL C141 Ethics .................................................. 3
PHIL C161 Introduction to Religious Studies ......... 3
PHIL C164 Survey of World Religions ................. 3
PHIL C205 Critical and Comparative Reasoning .... 4
PHIL C215 History of Western Philosophy ............. 3
SOCI C210 Diversity and Film ............................... 3
SOCI C220 Perspectives on Race, Class and Gender .. 3
SPAN C100 Basic Conversational Spanish .............. 3
SPAN C101 Elementary Spanish I .......................... 5
SPAN C102 Elementary Spanish II ........................ 5
SPAN C110 Review of Elementary Spanish .......... 5
SPAN C171 Intermediate Conversation .................. 3
SPAN C180 Spanish for Native Speakers ............. 3
SPAN C201 Intermediate Spanish I ........................ 5
SPAN C202 Intermediate Spanish II ........................ 5
SPAN C211 Hispanic Cinema ............................... 3
SPCH C101 Elements of Speech ............................ 3
SPCH C105 Interpersonal Communication ............. 3
THEA C101 Introduction of Theatre ...................... 3
THEA C103 Introduction to Play Reading .............. 3

Complete one of the following general education patterns:

OPTION A Cerro Coso Local General Education Pattern
OPTION B CSU General Education Breadth
OPTION C IGETC - Intersegmental General Education Transfer Curriculum
Liberal Arts: Social & Behavioral Sciences - Revision

The Liberal Arts: Social & Behavioral Sciences Associate in Arts Degree (60 units total, 18 units in the area of emphasis) is designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in an area of emphasis. This area of emphasis would be an ideal choice for students who plan on transferring to the California State University (CSU) or University of California (UC) as students can satisfy general education requirements, plus focus on transferable coursework that relates to majors at these institutions. Please consult with a counselor for information regarding your intended major at the specific college or university of your choice.

Courses in the Liberal Arts: Social & Behavioral Sciences Associate of Arts degree emphasize the perspectives, concepts, theories and methodologies of the disciplines that comprise study in the Social and Behavioral Sciences. Students study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies allow students to evaluate how societies and social subgroups operate. This area of emphasis is appropriate for students intending to transfer into such majors as Anthropology, Economics, History, Political Science, and Sociology. If you have questions about whether this area of emphasis is an appropriate choice for your major, please consult with a counselor or educational advisor.

A minimum of 18 units are required in one Area of Emphasis listed below. For depth of study, 2 or more courses in one discipline required. For breadth of study, courses must be taken from 2 or more disciplines within the Area of Emphasis. Courses selected may also be used to fulfill GE areas, refer to each transfer institution policy.

Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. Consult a counselor and visit http://www.assist.org/ to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

Your transfer institution may require some of the major courses to be taken for a grade. Please consult a counselor and http://www.assist.org/ to determine any limitations on Pass/No Pass grading in preparation courses.

Completion of the Cerro Coso Local General Education pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school depending on your transfer goals you should select Option B or C only. Please consult with a counselor or educational advisor if you have any questions about which option is right for you.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Identify and apply the Scientific Method used by social scientists to study human behavior
- Identify and analyze theories explaining the individual, social, historical, economic, or political activities of humans.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation and verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.
Select at least 18 units from the following courses:

For depth of study, 2 or more courses in one discipline required. For breadth of study, courses must be taken from 2 or more disciplines within the Area of Emphasis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMJ C101</td>
<td>Introduction to Administration of Justice</td>
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<tr>
<td>ANTH C111</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH C121</td>
<td>Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH C131</td>
<td>Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>CHDV C104</td>
<td>Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>CHDV C105</td>
<td>Introduction to Infant Development</td>
<td>3</td>
</tr>
<tr>
<td>CHDV C106</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>ECON C101</td>
<td>Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON C102</td>
<td>Macro-Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON C103</td>
<td>Micro-Economics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG C121</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG C131</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG C131H</td>
<td>World Reg. Geography-Honors</td>
<td>4</td>
</tr>
<tr>
<td>HIST C103</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST C103H</td>
<td>Western Civilization I-Honors</td>
<td>4</td>
</tr>
<tr>
<td>HIST C104</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST C104H</td>
<td>Western Civilization-Honors</td>
<td>4</td>
</tr>
<tr>
<td>HIST C131</td>
<td>History of the United States I</td>
<td>3</td>
</tr>
<tr>
<td>HIST C131H</td>
<td>History of the U.S. I-Honors</td>
<td>4</td>
</tr>
<tr>
<td>HIST C132</td>
<td>History of United States II</td>
<td>3</td>
</tr>
<tr>
<td>HIST C132H</td>
<td>History of the U.S. II-Honors</td>
<td>4</td>
</tr>
<tr>
<td>HIST C209</td>
<td>History of Mexico</td>
<td>3</td>
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<tr>
<td>HIST C218</td>
<td>California History</td>
<td>3</td>
</tr>
<tr>
<td>MATH C121</td>
<td>Elementary Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>POLS C101</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS C101H</td>
<td>American Government-Honors</td>
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<tr>
<td>POLS C102</td>
<td>Comparative Government</td>
<td>3</td>
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<td>POLS C204</td>
<td>United States Foreign Policy</td>
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<td>PSYC C101</td>
<td>General Psychology</td>
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<tr>
<td>PSYC C101H</td>
<td>General Psychology-Honors</td>
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<tr>
<td>PSYC C102</td>
<td>Physiological Psychology</td>
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<tr>
<td>PSYC C211</td>
<td>Lifespan Development</td>
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<tr>
<td>PSYC C231</td>
<td>Health Psychology</td>
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<tr>
<td>PSYC C241</td>
<td>Abnormal Psychology</td>
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</tr>
<tr>
<td>PSYC C251</td>
<td>Human Sexuality</td>
<td>3</td>
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<tr>
<td>PSYC C271</td>
<td>Research Methods in the Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SOCI C101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI C121</td>
<td>Chicanos of the Southwest</td>
<td>3</td>
</tr>
<tr>
<td>SOCI C131</td>
<td>Sociology of Women</td>
<td>3</td>
</tr>
<tr>
<td>SOCI C210</td>
<td>Diversity and Film</td>
<td>3</td>
</tr>
<tr>
<td>SOCI C220</td>
<td>Perspective on Race, Class, &amp; Gender</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following general education patterns:

- **OPTION A** Cerro Coso Local General Education Pattern
- **OPTION B** CSU General Education Breadth
- **OPTION C** IGETC - Intersegmental General Education Transfer Curriculum
Mathematics Associate in Science Degree for Transfer (AS-T) – Revision

The Associate in Science Degree in Mathematics for Transfer (60 units total, 22 units in major) prepares students for transfer to the CSU System to earn a baccalaureate in applied or theoretical mathematics, mathematics education, statistics, engineering, natural or physical science, or economics. Upon successful completion of the program students will be able to apply advanced mathematical concepts such as extending the concepts of derivatives, differentials, and integrals to include multiple independent variables, solving simple differential equations of the first and second order, and analyzing and modeling the behaviors of physical phenomena using calculus. Baccalaureate options for students include General Mathematics, Applied Mathematics, Mathematics Education, Statistics, Physics, Chemistry, Biology, Computer Science, Engineering, Computer Information Systems, Management Information Systems, and Economics. To complete the degree, students must fulfill both of the following requirements:

3. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the Kern Community College District Board of Trustees.

4. Obtainment of a minimum grade point average of 2.0

Please note that our local Cerro Coso general education pattern MAY NOT be used to fulfill the requirements of this degree and that all required Courses for the degree must be transferable to CSU.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Use the Cartesian, polar, cylindrical, and spherical coordinate systems effectively.
- Use scalar and vector products in applications.
- Use vector-valued functions to describe motion in space.
- Extend the concepts of derivatives, differentials, and integrals to include multiple independent variables.
- Solve simple differential equations of the first and second order.
- Analyze and model the behaviors of physical phenomena by applying advanced calculus concepts.
- Apply broad mathematical concepts to practical applications.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete the following courses:

MATH C151  Analytic Geometry and Calculus I.............5 Units
MATH C152  Analytic Geometry and Calculus II............5
MATH C251  Analytic Geometry and Calculus III..........5

Choose a minimum of 7 units from below with at least 4 units from Area A:

**Area A**
MATH C255  Ordinary Differential Equations.............4 Units
MATH C257  Linear Algebra..................................4

**Area B**
MATH C121  Elementary Probability and Statistics.......4 Units
or MATH C121H Elementary Probability and Statistics Honors ........................................5
PHYS C111  Mechanics.......................................5
CSCI C251  Introduction to Visual Basic Programming 3
CSCI C252  Introduction to Computer Science ..........3
CSCI C265  Introductory C++ Programming..............3

Complete one of the following general education patterns:

OPTION B  CSU General Education Breadth
OPTION C  IGETC - Intersegmental General Education Transfer Curriculum
Studio Arts Associate in Arts
Degree for Transfer (AA-T) – New

The Associate in Arts Degree in Studio Arts for Transfer (60 units total, 24 units in major) prepares students for transfer to the CSU System to earn a baccalaureate in Arts, Studio Arts, Fine Arts, Art History, or Art Education. Upon successful completion of the program, students will know how to analyze and interpret the formal, technical, and expressive aspects of a work of art, whether as a viewer or creator. They will also demonstrate proficiency in basic art techniques. The program is appropriate for students going on to professional art school, as well as those completing their studies in fine arts, design fields (such as graphic and media arts, industrial and product design), art education, or art therapy. To complete the degree, students must fulfill both of the following requirements:

5. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the Kern Community College District Board of Trustees.

6. Obtainment of a minimum grade point average of 2.0

Please note that our local Cerro Coso general education pattern MAY NOT be used to fulfill the requirements of this degree and that all required Courses for the degree must be transferable to CSU.

Program Learning Outcomes
Upon successful completion of the program, the student will be able to

- Demonstrate proficiency in basic foundation level art techniques and practices.
- Use a wide range of materials and means of expression to communicate visual ideas, including traditional or digital studio practices.

Courses
Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART C106</td>
<td>History of Western Art II</td>
<td>3</td>
</tr>
<tr>
<td>ART C111</td>
<td>Two Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART C115</td>
<td>3-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART C121</td>
<td>Drawing I</td>
<td>3</td>
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</table>

Choose a minimum of 12 units from below with at least 3 units from Area A:

Area A

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART C105</td>
<td>History of Western Art I</td>
<td>3</td>
</tr>
<tr>
<td>ART C101</td>
<td>Introduction to Art</td>
<td>3</td>
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Area B

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ART C131</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART C141</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART C151</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART C165</td>
<td>Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ART C221</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART C231</td>
<td>Painting II</td>
<td>3</td>
</tr>
<tr>
<td>ART C240</td>
<td>Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>ART C265</td>
<td>Photography II</td>
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</table>

Complete one of the following general education patterns:

OPTION B  CSU General Education Breadth
OPTION C  IGETC - Intersegmental General Education Transfer Curriculum
# COURSE DELETIONS

## Automotive Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AUTO C111</td>
<td>Engine Performance</td>
</tr>
<tr>
<td>AUTO C115</td>
<td>Electrical Systems</td>
</tr>
<tr>
<td>AUTO C121</td>
<td>Brakes</td>
</tr>
<tr>
<td>AUTO C125</td>
<td>Automotive Suspension and Steering</td>
</tr>
<tr>
<td>AUTO C131</td>
<td>Air Conditioning and Heating Systems</td>
</tr>
<tr>
<td>AUTO C135</td>
<td>Auto Transmission and Transaxle Systems</td>
</tr>
<tr>
<td>AUTO C141</td>
<td>Manual Drive Train and Axles</td>
</tr>
<tr>
<td>AUTO C145</td>
<td>Engine Repair</td>
</tr>
<tr>
<td>AUTO C151</td>
<td>Hybrid and Alternative Fuels</td>
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## Computer Science

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CSCI C079</td>
<td>Special Topics Computer Science</td>
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<tr>
<td>CSCI C081</td>
<td>Special Topics Computer Science</td>
</tr>
<tr>
<td>CSCI C083</td>
<td>Special Topics Computer Science</td>
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## Music

<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>MUSC C061</td>
<td>Special Topics in Music</td>
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REVISED COURSES

Biology – Revisions

BIOL C125 A/UC/CSU 4.00 Units
Survey of Anatomy and Physiology

Advisory: ENGL C070, READ C056
Repeat Status: Not repeatable

This course is an introductory anatomy and physiology course for students in health career programs. Emphasis is on the structure and function of human cells, tissues, organs, and organ systems. Human development and heredity are also covered. Laboratory will give hands-on time to learn anatomical structures and perform physiological exercises. Not open to students who have completed BIOL C121. 54 hours lecture/54 hours laboratory.

BIOL C251 A/UC/CSU 4.00 Units
Human Anatomy

Prerequisite: ENGL C070, READ C056
Repeat Status: Not repeatable

This course includes the study of microscopic and gross anatomy of body systems including skeletal, muscular, nervous, circulatory, lymphatic, respiratory, digestive, urinary, endocrine, reproductive and integumentary systems. 54 hours lecture/54 hours laboratory.

BIOL C255 A/UC/CSU 4.00 Units
Human Physiology

Prerequisite: ENGL C070, READ C056
Repeat Status: Not repeatable

This course is designed to provide students with an understanding of the function and regulation of the human body and physiological integration of the organ systems to maintain homeostasis. Course content includes: neural & hormonal homeostatic control mechanisms, musculoskeletal, circulatory, respiratory, digestive, urinary, immune, reproductive, and endocrine systems. 54 hours lecture/54 hours laboratory.

Chemistry - Revisions

CHEM C221 A/UC/CSU 5.00 Units
Organic Chemistry I

Prerequisite: CHEM C111
Repeat Status: Not repeatable

This course covers structure and bonding, polar bonds, alkanes, cycloalkanes, stereochemistry, synthesis, structure and reactivity of alkenes, synthesis, structure and reactivity of alkynes, handedness in chemistry, synthesis, structure and reactivity of alkyl halides, carbocations, the concept of resonance, nucleophilic substitutions and eliminations, basic biochemistry, mass spectrometry, infrared, nuclear magnetic resonance and ultraviolet spectroscopy and aromaticity. This Organic Chemistry I course is taught according to standards developed by the American Chemical Society. 72 hours lecture/54 hours laboratory.

CHEM C223 A/UC/CSU 5.00 Units
Organic Chemistry II

Prerequisite: CHEM C221
Repeat Status: Not repeatable

This course covers the chemistry of aromatic compounds, alcohols, thioles, epoxides and sulfides, aldehydes, ketones, carboxylic acid and carboxylic acid derivatives, amino acids, proteins, amines, phenols, carbohydrates, lipids, heterocycles, polymers and biological systems. Pericyclic carbonyl condensation, alpha substitution and other reaction mechanisms are also covered. This Organic Chemistry II course is taught according to the standards developed by the American Chemical Society. 72 hours lecture/54 hours laboratory.

CHEM C223H A/UC/CSU 6.00 Units
Organic Chemistry II – Honors

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Prerequisite: CHEM C221
Repeat Status: Not repeatable

This course covers the chemistry of aromatic compounds, alcohols, thioles, epoxides and sulfides, aldehydes, ketones, carboxylic acid and carboxylic acid derivatives, amino acids, proteins, amines, phenols, carbohydrates, lipids, heterocycles polymers, biological systems. Pericyclic, carbonyl condensation, alpha substitution and other reaction mechanisms are also covered. This Organic Chemistry II (Honors) course is taught according to standards developed by the American Chemical Society. This honors course provides more content and requires greater intensity and depth of study than the non-honors Organic Chemistry class. 90 hours lecture/54 hours laboratory.
Child Development – Revision

CHDV C106  A/UC/CSU  3.00 Units
Child Growth and Development

Advisory: CHDV C100, ENGL C070, READ C056
Repeat Status: Not repeatable

This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There is an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students observe children, evaluate individual differences and analyze characteristics of development at various stages. Students are required to observe children in a group setting. 54 hours lecture.

History - Revisions

HIST C131  A/UC/CSU  3.00 Units
History of United States I

Advisory: ENGL C070, READ C056
Repeat Status: Not repeatable

This course examines the social, political, economic and cultural history of the United States from the establishment of European colonies in the New World through Reconstruction. Special attention is given to the study of select topics, such as the development of American ideologies, institutions, and legal structures. 54 hours lecture.

HIST C131H  A/UC/CSU  4.00 Units
History of the United States I – Honors

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Advisory: ENGL C070, READ C056
Repeat Status: Not repeatable

This course examines the social, political, economic and cultural history of the United States from the establishment of European colonies in the New World through Reconstruction. Special attention is given to the study of select topics, such as the development of American ideologies, institutions, and legal structures. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

HIST C132  A/UC/CSU  3.00 Units
History of United States II

Advisory: ENGL C070, READ C056
Repeat Status: Not repeatable

The course examines the social, political, economic and cultural history of the United States from Reconstruction to the present. Special attention will be paid to the study of selected topics, such as American institutions, ideologies, and Constitutional development.

54 hours lecture.

HIST C132H  A/UC/CSU  4.00 Units
History of the United States II – Honors

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Advisory: ENGL C070, READ C056
Repeat Status: Not repeatable

The course examines the social, political, economic and cultural history of the United States from Reconstruction to the present. Special attention will be paid to the study of selected topics, such as American institutions, ideologies, and Constitutional development. The honors course provides more content and requires greater intensity and depth of study than the non-honors class.

72 hours lecture.

Mathematics - Revisions

MATH C121H  A/UC/CSU  5.00 Units
Elementary Probability and Statistics – Honors

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Prerequisite: MATH C055
Repeat Status: Not repeatable

Elements of descriptive statistics, measures of central tendency, dispersion and presentation of data. Concepts of probability, random variables and normally distributed random variables. Sampling error, sampling processes and the distribution of sample means. Hypothesis testing of means and proportions for one and two populations. Linear regression, the least squares criterion, descriptive and inferential methods using linear regression. One and two way analysis of variance. The honors section provides more content and requires greater intensity and depth of study than the non-honors class.

90 hours lecture.
MATH C131  A/CSU  4.00 Units
Basic Functions and Calculus for Business
Prerequisite: MATH 055
Repeat Status: Not repeatable
This course emphasizes the concepts of differential calculus and integral calculus as they relate to business and economics. The course integrates rates of change, interest formulas, concepts of demand and elasticity, as well as exponential and logarithmic applications. 72 hours lecture.

MATH C255  A/UC/CSU  4.00 Units
Ordinary Differential Equations
Prerequisite: MATH C251
Advisory: A computer algebra system or graphing calculator and basic computer skills are strongly recommended
Repeat Status: Not repeatable
This course provides students with a foundation of differential equations of change, motion, and growth within chemical, physical, biological, and business systems with problem solving and applications. Students are introduced to modeling using mathematical software used in industry to solve complex problems. First, second, and higher order differential equations including Euler”s Method, Eigenvalues, Numerical Methods, Nonlinear Systems, and La Place Transforms are covered. 72 hours lecture.

MATH C257  A/UC/CSU  4.00 Units
Linear Algebra
Prerequisite: MATH C152
Repeat Status: Not repeatable
This course covers the following topics: systems of linear equations; matrices; n-dimensional real vector spaces; general vector spaces; linear transformations; eigenvalues and eigenvectors; and applications of the above topics. 72 hours lecture.

Physical Science – Revisions
PHSC C102  A/UC/CSU  1.00 Unit
General Earth Sciences Laboratory
Prerequisite: PHSC C101 or concurrent enrollment
Repeat Status: Not repeatable
This laboratory course provides practical experience in field methods and enhancement of topics in PHSC C101 such as topographic map reading, air photo interpretation, soils, natural hazards, resource management, landforms, Earth-Sun relationships and motions, weather, climatic types and regions, ecosystems, and the ocean. Not open to students who have completed PHSC C105. 54 hours laboratory.

PHSC C111  A/UC/CSU  3.00 Units
Physical Science Lecture
Prerequisite: MATH C050
Advisory: ENGL C040, READ C056
Status: Not repeatable
This course covers conceptual topics in physics and chemistry, with applications to the earth sciences and astronomy, for the non-science major. Topics such as motion, energy, electricity, magnetism, waves, atoms, chemistry and chemical reactions are covered. Not open to students who have completed PHSC C115. 54 hours lecture.

PHSC C112  A/UC/CSU  1.00 Unit
Physical Science Laboratory
Prerequisite: MATH C050
Concurrent Enrollment: PHSC C111
Repeat Status: Not repeatable
This laboratory course covers conceptual experiments in physics and chemistry, with applications to the earth sciences and astronomy, for the non-science major. Experiments in motion, energy, electricity, magnetism, waves, atoms, chemistry and chemical reactions are covered on a conceptual basis. 54 hours laboratory.

PHSC C121  A/UC/CSU  3.00 Units
Astronomy Lecture
Advisory: ENGL C040, MATH C050, READ C056
Repeat Status: Not repeatable
This lecture course is a general survey of the physical Universe from the standpoint of modern astronomy. The course first introduces the methods and tools used in astronomy and then applies them to investigate the many scales of physical structure and phenomena in the Universe. Topics include Solar System scale objects, such as planets, moons, asteroids, comets, and meteoroids; stellar scale objects, such as stars, star clusters, and nebulae; galactic scale objects, such as galaxies and galaxy clusters; and finally the entire Universe itself. Not open to students who have completed PHSC C125. 54 hours lecture.
PHSC C122  A/UC/CSU  1.00 Unit  
**Astronomy Laboratory**

Prerequisite: PHSC C121 or concurrent enrollment  
Repeat Status: Not repeatable  
This course is the laboratory portion of PHSC C121. This laboratory course covers optical principles, the use of telescopes and binoculars, the use of star charts and sky simulation software, and the observation of celestial objects and phenomena. Not open to students who have completed PHSC C125. 54 hours laboratory.

PHSC C125  A/UC/CSU  4.00 Units  
**Astronomy**

Advisory: ENGL C040, READ C056, MATH C040  
Repeat Status: Not repeatable  
This lecture and laboratory course is a general survey of the physical Universe from the standpoint of modern astronomy. The course first introduces the methods and tools used in astronomy and then applies them to investigate the many scales of physical structure and phenomena in the Universe. Topics include Solar System scale objects, such as planets, moons, asteroids, comets, and meteoroids; stellar scale objects, such as stars, star clusters, and nebulae; galactic scale objects, such as galaxies and galaxy clusters; and finally the entire Universe itself. The laboratory portion of this course covers optical principles, the use of telescopes and binoculars, the use of star charts and sky simulation software, and the observation of celestial objects and phenomena. Not open to students who have completed PHSC C121. 54 hours lecture/54 hours laboratory.

**Psychology - Revisions**

PSYC C101  A/UC/CSU  3.00 Units  
**General Psychology**

Advisory: ENGL C070, READ C056  
Repeat Status: Not repeatable  
This course offers the student an introduction to the scientific study of behavior and mental processes focusing on biological influences, perceptions, consciousness, memory, thinking, motivation, emotion, stress/health, development, intelligence, sexuality, social psychology, psychological disorders and learning general psychological principles. The American Psychological Association (APA) format is taught and applied to written assignments and papers. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

PSYC C101H  A/UC/CSU  4.00 Units  
**General Psychology – Honors**

Limitation on Enrollment: Acceptance for the Honors program or eligibility for this Honors course as determined in consultation with the instructor.  
Prerequisite: ENGL C070  
Advisory: READ C056  
Repeat Status: Not repeatable  
This course offers the student an introduction to the scientific study of behavior and mental processes including biological influences, perceptions, consciousness, memory, thinking, motivation, emotion, stress/health, development, intelligence, personality, sexuality, social psychology, psychological disorders and learning general psychological principles. The American Psychological Association (APA) format is taught and applied to written assignments and papers. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

PSYC C271  A/UC/CSU  3.00 Units  
**Research Methods in the Social and Behavioral Sciences**

Prerequisite: PSYC C101, MATH C121  
This course covers research methods in the social and behavioral sciences, as well as reporting results in American Psychological Association (APA) style. These methods include research design (experimental, non-experimental, and quasi-experimental), the interpretation of behavioral data using descriptive and inferential statistics and research ethics. 54 hours lecture.

**Physics – Revisions**

PHYS C111  A/UC/CSU  5.00 Units  
**Mechanics**

Prerequisite: MATH C151  
Repeat Status: Not repeatable  
This course covers the fundamental laws of nature governing the motion of bodies and their relation to external forces. Motion in 1, 2, and 3 dimensions is covered as well as conservation of momentum, energy and angular momentum, gravitation, fluid statics and dynamics, oscillation and simple harmonic motion. 63 hours lecture/81 hours laboratory.
**Spanish – Revisions**

**SPAN C100**  A/CSU  3.00 Units

*Basic Conversational Spanish*

Advisory: ENGL C070, READ C056
Repeat Status: Not repeatable

This course is designed to start students speaking Spanish confidently at a basic level. Emphasis is made on oral practice, pronunciation, and vocabulary building. The class develops the students’ speaking skills and understanding of Spanish for practical use in everyday situations. This course is neither a prerequisite nor equivalent to SPAN C101 and can be taken concurrently with SPAN C101. 54 hours lecture.

**SPAN C171**  A/UC/CSU  3.00 Units

*Intermediate Conversational Spanish*

Advisory: SPAN C102
Repeat Status: Not repeatable

This course improves the student’s ability to communicate in Spanish through vocabulary building, reading, and classroom conversation at a mid to high-intermediate level. Through an interactive classroom approach, students have the opportunity to enhance their oral proficiency as they apply the language to a variety of situations. There is a thorough review of grammar concepts for non-native speakers. 54 hours lecture.
NEW COURSES

Health Careers – New

HCRS C130  A/CSU  2.00 Units
Communication in Healthcare

Advisory: ENGL C070, READ C056
Repeat Status: Not repeatable
This course is designed to prepare the student to recognize human behaviors and communicate effectively with clients and other healthcare providers in the workplace. Topics include verbal, nonverbal communication techniques, listening skills, therapeutic communication skills and communicating with other healthcare providers. This course meets the competency standards for CAAHEP and CCBMA certification. 36 hours lecture.

HCRS C131  A/CSU  1.50 Units
Medical Law and Ethics for Medical Assistants

Advisory: ENGL C070, READ C056
Repeat Status: Not repeatable
This course is designed to explore the theories, models and principles that serve as guides for ethical behavior within the medical assistant context. The student explores the complexities of the ethical and legal aspects of patient care related to the medical assistant’s practice, all the while emphasizing the importance of principled behavior in personal and professional situations. 27 hours lecture.

HCRS C132  A/CSU  1.50 Units
Electronic Health Record

Advisory: ENGL C070, READ C056
Repeat Status: Not repeatable
This course covers concepts and techniques for managing and maintaining manual and electronic health records (EHR). Topics include structure and use of health information including data collection and analysis, data sources/sets, archival systems, and quality and integrity of health care data. The focus of this course is system-wide clinical documentation guidelines and regulatory standards. 27 hours lecture.

HCRS C133  A/CSU  3.00 Units
Medical Office Procedures

Prerequisite: HCRS C130, HCRS, C131, HCRS C132, HCRS C150
Repeat Status: Not repeatable
This course enables the student to gain a wide range of skills that may be required in a medical front office which is an area that is constantly changing. It covers basic office procedures, which include receptionist, appointments, scheduling, telephone techniques, interpersonal relations, computer data entry, oral communication, and medico-legal doctrines. 54 hours lecture.

HCRS C134  A/CSU  3.00 Units
Medical Insurance and Billing

Prerequisite: HCRS C130, HCRS, C131, HCRS C132, HCRS C150
Repeat Status: Not repeatable
This course presents a thorough discussion of office finance management and insurance. Insurance coding and billing prepares the student to undertake the details necessary for implementing the specialized insurance forms utilized in the modern healthcare system. Included in the course insurance exercises are Blue Cross and Blue Shield, Medicaid-MediCal, CHAMPUS, Unemployment and Worker’s Compensation, and Health Maintenance Organizations. 54 hours lecture.

HCRS C135  A/CSU  2.00 Units
Basic ICD and CPT Coding

Prerequisite: HCRS C134 or concurrent enrollment
Repeat Status: Not repeatable
This course presents a thorough discussion of basic International Classification of Diseases (ICD) and current procedural terminology (CPT) coding. Procedural coding and International Classification of Diseases prepares the student to undertake the details necessary for implementing the specialized coding needed for billing insurance companies. 36 hours lecture.
HCRS C136  A/CSU  3.00 Units
Clinical Medical Assisting I

Prerequisite:  HCRS C130, HCRS, C131, HCRS C132, HCRS C150
Repeat Status:  Not repeatable

This is an introductory course designed to provide basic education and training for the individual who is interested in working as a Clinical Medical Assistant in a medical or clinical back office. Topics include basic infection control; Occupational Safety and Health Act regulations; principles of nutrition; vital signs and height/weight measurements; initial medical record documentation; and maintenance of the clinical facility. Common office practices, such as vital signs are discussed and practiced in the Skills Lab.

36 hours lecture/54 hours laboratory.

HCRS C137  A/CSU  3.00 Units
Clinical Medical Assisting II

Prerequisite:  HCRS C136
Repeat Status:  Not repeatable

This course is designed to provide advanced education and training for the individual who is interested in working as a Clinical Medical Assistant in a medical or clinical back office. Topics include patient history and interviewing; techniques of assisting the physician with patients; minor surgeries and sterile dressing changes; staple and suture removal; theory of x-ray examination and treatment; patient education; electrocardiographic methods; and first aid. Common office procedures are discussed and practiced in the Skills Lab. Emphasis is placed the role of the medical assistant.

36 lecture/54 hours laboratory.

HCRS C138  A/CSU  2.00 Units
Medication Administration for Medical Assisting

Prerequisite:  HCRS C136 or concurrent enrollment
Repeat Status:  Not repeatable

This course provides basic education and training in medications and administration for the individual who is interested in working as a Clinical Medical Assistant in the medical back office environment. Topics include basic mathematics, terminology, medication orders, medication administration including oral and injection and documentation. Emphasis is on client education and the role of the medical assistant.

27 lecture/27 hours laboratory.

PHED C171  A/UC/CSU  1.00 Units
Intercollegiate Volleyball I

Repeat Status:  Not repeatable

This is an intercollegiate athletics course for Volleyball. The course is designed for the first semester of participation in high level competition and skill development. Emphasizes advanced skill, theory, tactics, strategy and intercollegiate competition.

175 hours Activity