Ceramics instructor Bob Nichols began teaching at Allan Hancock College in 1988. As an instructor, many changes have developed in his work, primarily from attempting to expand students' awareness of the vast array of artistic expression available through ceramics. His work explores a wide range of possibilities, rich surface decoration, sculptural forms and complex compositions.

Until 1988, Mr. Nichols made his living creating and selling mostly functional pottery, having set up his own home studio in San Luis Obispo upon graduation from Cal Poly's architectural design program. He completed a master of fine arts degree at UCSB.

This series featured on the cover is part of a study of the relationships of how early and contemporary cultures choose to make marks in the environment.
CATALOG
2011-12
Effective Summer Session 2011

Santa Maria Campus
800 South College Drive, Santa Maria, CA 93454-6399
Admissions & Records Office
(805) 922-6966 ext. 3248

Lompoc Valley Center
One Hancock Drive, Lompoc, CA 93436
(805) 735-3366

Vandenberg AFB Center
144 Wyoming Avenue, bldg. 14003, Vandenberg AFB, CA 93437-6312
(805) 734-3500 or (805) 605-5915

Solvang Center
320 Alisal Road, Ste. 306, Solvang CA 93463
(805) 693-1543

Toll-free from San Luis Obispo and Santa Barbara counties
1-866-DIAL AHC (342-5242)

www.hancockcollege.edu

The Allan Hancock Joint Community College District is committed to the active promotion of diversity and equal access and opportunities to all staff, students, and applicants, including qualified members of underrepresented/protected groups. The college assures that no person shall be discriminated against because of race, color, ancestry, religion, gender, national origin, age, physical/mental disability, medical condition, status as a Vietnam-era veteran, marital status, or sexual orientation.

Allan Hancock College will provide, upon request, alternate translation of its general information documents in large print, Braille, e-text etc. Please call (805) 922-6966 ext. 3788.
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Allan Hancock College is named for the late Captain G. Allan Hancock, who distinguished himself in many fields. A marine explorer, railroad engineer, pilot, oil man, philanthropist and musician, Captain Hancock had an abiding interest in education for all Americans.

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Students enjoy a beautiful day on the Santa Maria campus.
The History of Allan Hancock College

Allan Hancock College was founded in 1920 when the Santa Maria High School District established Santa Maria Junior College. Classes were held in high school rooms until 1937, when a bond issue passed and a college wing was built on the northwest corner of the high school campus. In 1954, because of expanding enrollment, the college moved from the high school to Hancock Field, which for a number of years had housed the Hancock College of Aeronautics and, later, the University of Southern California’s School of Aeronautics.

Shortly thereafter, the community voted to establish a separate junior college district. At this time, the name of the college was changed to Allan Hancock College to honor Captain G. Allan Hancock, a prominent community leader who owned the land and facilities of the airfield. Today the district includes all of northern Santa Barbara County and parts of San Luis Obispo and Ventura counties, including the cities of Santa Maria, Lompoc, Guadalupe, Solvang and Buellton, and Vandenberg Air Force Base.

Since the first classes taught in 1952 at the Camp Cooke Army barracks (now Vandenberg Air Force Base), the college has offered extensive courses in the community and remains committed to serving the Lompoc and Santa Ynez valleys. The college’s Vandenberg Air Force Base Center opened in 1957; classes have been taught in the Santa Ynez Valley since 1971 and in Lompoc since 1974. The college completed construction of a permanent Lompoc Valley Center in spring 1999, and opened the Solvang Center in August 2000.

Facilities

In 1958, the voters approved a bond issue to purchase the airfield site and finance a building program. By the fall of 1962, many classes were held in four new college buildings, the nucleus of a campus master plan designed for 2,000 students. These buildings included the Student Center, the library, the science complex and the north wing of the gymnasium. Many classes continued to be offered in buildings constructed for the original aeronautics college.

As enrollment continued to grow, the college expanded its facilities. The two-story business education building opened in December 1964, and the fine arts building opened in the fall of 1965. Both the gymnasium and the industrial technology building were completed during the fall of 1967. The administration and student services buildings were ready for fall semester 1967, and the Performing Arts Center, which included the Marian Theater, followed the next spring. The college bookstore was completed in May 1971.

In 1974, property and buildings located three blocks from the Santa Maria campus were purchased from the Southern California Gas Company, resulting in the addition of nine acres to the district’s assets. Those buildings, now known as “South Campus,” house the district’s plant services operation, as well as the law enforcement, fire technology and emergency services instructional programs. In 1977, the Learning Resources Center opened after the completion of a 16,000 square-foot addition to the library and extensive remodeling of the existing structure.

The learning assistance building opened in 1982 to serve physically disabled students and those with learning disabilities. The humanities complex at the south end of the campus was completed in 1989.

The family and consumer education facility began full operation for spring 1991 classes, and the Severson Theater, an addition to the Performing Arts Center, was completed in fall 1992, along with entry and roadway improvements. The original Student Center was completely remodeled and expanded in 2002 and now incorporates the campus bookstore within its walls.

An extensive remodel and expansion of the college’s Learning Resources Center, one of the four original campus buildings, was completed in 2007. The building now includes a two-story addition, the Academic Resource Center (ARC), which houses student support operations such as the tutorial and writing centers. The Ann Foxworthy Gallery is also located inside the ARC. It is named for Superintendent/President Emeritus Ann Foxworthy, Ph.D., who retired in 2005.

A $180 million general obligation bond, Measure I, was passed by voters in June 2006, and it is paving the way for additional new facilities and technology enhancements that will be completed over a 10-year period.

Measure I funds helped to complete two new buildings that opened in 2007. A new Community Education building opened in summer 2007, and it contains modern computer labs, classrooms and office spaces, along with a professional culinary teaching kitchen. A two-story Science building opened for fall classes in August 2007, offering state-of-the-art labs and classroom spaces for the life and physical sciences, mathematical sciences and health sciences departments.
Groundbreaking for the new Student Services Center occurred in May 2010. Construction is under way and expected to be completed in fall 2012. This new facility will house under one roof important offices and functions that students need, including registration, admissions, financial aid, counseling, learning assistance and more. Adjacent to the Student Services Center will be a new administration building, which is also under construction. It will house all administrative functions, including the superintendent/president’s office, human resources, facilities, business and administrative services and more.

Groundbreaking is expected in July 2011 on two more major Measure I projects: the Public Safety Training Complex at the college’s Lompoc Valley Center, and the Children’s Center Lab Addition on the Santa Maria campus. Also in the planning stages are the fine arts facility, industrial technology/athletic field renovations, athletics building remodel, and ongoing technology enhancements.

Academics and Career Training

The college’s curriculum has also grown to meet the community’s needs, from the 1920 curriculum of 12 courses paralleling the University of California’s lower division requirements, to more than 1,000 credit courses today. Programs have kept pace with changing needs since the very beginning, with such courses as airplane mechanics and radio code in the 1930s and ‘40s to entrepreneurship and viticulture and enology today.

To take advantage of rapidly-changing educational technology, the college began offering instruction on television in 1972, and classes via video in 1989. In 1998, online classes were incorporated into the curriculum. The college also carries a 40-year tradition of offering extensive evening classes.

Since beginning its law enforcement certificate program in 1965, the college has granted certificates in such areas as fire technology, dental assisting, licensed vocational nursing, medical assisting, nursing assistant, emergency medical technician, human services and many more.

Science courses such as microbiology, anatomy and geology are taught in exceptional labs. English, foreign languages, history, psychology, political science, music, drama and art have anchored the curriculum since the college opened its doors. Since 1980, the college has sponsored a semester abroad program, which offers students the opportunity to study across the globe.

The Community Education program, active since 1973, offers hundreds of courses including citizenship preparation and classes for older adults. In an effort to offer programs for citizens of all ages, the college also sponsors a “College for Kids” dance program throughout the year. The arts and lectures series has been presenting distinguished speakers and performers since 1965.

Student Success and Community Commitment

Starting in the late 1950s, the college began to offer remedial instruction, especially in mathematics and English. Since 1974, the Tutorial Center has helped students on an individual and group basis. The resulting search for more effective teaching methods led to the opening of the Writing Center in 1975. The Math Center was established in 1996. The Small Business Entrepreneur Center opened in spring 2011.

Allan Hancock College has established itself as a premier educational institution serving residents from the Central Coast of California and beyond. It also contributes significantly to the local economy as one of the largest employers in northern Santa Barbara County, with approximately 1,300 employees.

The history of Allan Hancock College is rich with accomplishments. Although the board of trustees, administration, faculty and staff value the college’s past, they also have a vision for the future, as do our nearly 17,000 students each semester, who choose Allan Hancock College with the goal to "Start here. Go anywhere."
MISSION OF THE COLLEGE

Allan Hancock College provides quality educational opportunities that enhance student learning and the creative, intellectual, cultural and economic vitality of our diverse community.

VISION STATEMENT

Allan Hancock College will be the recognized leader in student success through excellence in teaching, learning and services in an environment of mutual respect.

ALLAN HANCOCK COLLEGE SHARED VALUES

- Student Success
- Innovation
- Mutual Respect
- Lifelong Learning
- Diversity
- Academic Freedom
- Shared Governance
- Excellence

We at Allan Hancock College express our values in all that we do. Our commitment is to find innovative ways to enhance student achievement and to always put students first. We operate in a culture of mutual respect and lifelong learning, developing relationships among students and employees to enrich our collective appreciation for diverse ideas, thoughts and experiences. Our culture is supported by a philosophy that shared governance and academic freedom are primary vehicles in promoting excellence in all teaching, learning and services through open and honest communication.

ACCREDITATION

Allan Hancock College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges (10 Commercial Blvd., Ste. 204, Novato, CA, 94949, (415) 506-0234), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. The college has been continuously accredited since 1952.

The latest accreditation is available for review on the Allan Hancock College public website. In addition, the licensing or other approval documents by a state agency for the various programs that require additional credentials are available by request through the office of the Vice President of Academic Affairs.

PHILOSOPHY STATEMENT ON ASSESSMENT AND STUDENT LEARNING OUTCOMES

Excerpt from the statement adopted by the Allan Hancock College Academic Senate

Allan Hancock College is committed to excellence in learning, in teaching, and service in order to enable students to reach their educational goals. Student success is the highest priority at Allan Hancock College. Working with students and the community, all campus constituencies collaborate to provide innovative and comprehensive programs and services to ensure student achievement and meet community needs.

Thus, the primary goal of assessment at Allan Hancock College is to improve student learning. Learning is more than simply acquiring knowledge: “it entails not only what students know but what they can do with what they know; it involves not only knowledge and abilities but values, attitudes, and habits of mind that affect both academic success and performance beyond the classroom” (AAHE Nine Principles of Good Practice for Assessing Student Learning). The entire campus, seeking input from the greater community when appropriate, works together in a spirit of continuous improvement to support student growth and development for lifelong learning.

Students learn best when they assume ownership of and responsibility for their own learning; it is Allan Hancock College’s goal to provide an environment that best facilitates that learning. Therefore, outcomes assessment not only monitors what and how well students learn, but also measures the success of the institution in providing effective learning opportunities. Outcomes assessment occurs in both instructional and student service settings. The keys to the process are well-defined student learning outcomes and student support strategies implanted in an environment of high academic standards.

INSTITUTIONAL LEARNING OUTCOMES

What does Allan Hancock College contribute to the lives of its students? This question has inspired a dialog among our faculty, staff and students.

Upon receiving an associate’s degree from Allan Hancock College, students will have achieved proficiency in communication; critical thinking and problem solving; global awareness and cultural competence; information and technology literacy; quantitative literacy; scientific literacy and personal responsibility and development. The following ILOs are integrated as knowledge, skills, abilities and attitudes into a variety of courses and student services available at the college.

1. COMMUNICATION

Communicate effectively using verbal, visual and written language with clarity and purpose in workplace, community and academic contexts.

Examples of when students have demonstrated mastery of this ILO includes, but is not limited to:
- Read effectively for many purposes including information gathering, appreciation and analysis.
- Write clearly, concisely and accurately in a variety of contexts and formats and for many audiences.
- Speak effectively in many different situations, involving diverse people and viewpoints.
- Listen actively and analyze the substance of others’ comments.
- Demonstrate effective visual literacy.

2. CRITICAL THINKING & PROBLEM SOLVING

Explore issues through various information sources; evaluate the credibility and significance of both the information and the source to arrive at a reasoned conclusion.

Examples of when students have demonstrated mastery of this ILO includes, but is not limited to:
6. SCIENTIFIC LITERACY
Use scientific knowledge and methodologies to assess potential solutions to real-life changes.

Examples of when students have demonstrated mastery of this ILO includes, but is not limited to:
- Demonstrate a science-based understanding of the natural world.
- Apply scientific concepts and models to solve complex problems within the natural world.
- Describe and demonstrate the use of the scientific method.
- Demonstrate science-based knowledge in daily life situations.

7. PERSONAL RESPONSIBILITY & DEVELOPMENT
Take the initiative and responsibility to assess your own actions with regard to physical wellness, learning opportunities, career planning, creative contribution to the community and ethical integrity in the home, workplace and community.

Examples of when students have demonstrated mastery of this ILO includes, but is not limited to:
- Demonstrate an understanding of ethical issues and the ability to make ethical decisions in complex situations.
- Acquire knowledge and exercise choices that enhance wellness.
- Develop responsibility for one’s own actions and participate actively in pluralistic society.
- Produce and/or respond to artistic or creative expressions.
- Participate effectively in teams, provide leadership, make decisions and seek consensus when appropriate.
- Value and apply lifelong learning skills for personal and professional growth.
- Value one’s personal role in sustaining the ecosystem.
- Develop career goals and plans to accomplish them.

For FAQs about the ILOs go to www.hancockcollege.edu and Quick Link “Research & Planning.”

ALLAN HANCOCK COLLEGE FOUNDATION
The Allan Hancock College Foundation was established to support Allan Hancock College. Its primary purposes are to:
1) operate for the advancement of education; 2) solicit and raise funds for scholarships; 3) assist students to pursue an education beyond the secondary level; and 4) meet the special needs of Allan Hancock College. The foundation provides the gift of opportunity and promotes excellence in education to residents of northern Santa Barbara County. Essential resources are generated through the community leadership of its distinguished volunteer board of directors. The Allan Hancock College Foundation is a California nonprofit corporation and determined to be tax exempt under section 501(c)(3) of the Internal Revenue Code. For further information, call (805) 925-2004.

AUXILIARY PROGRAMS CORPORATION
The Allan Hancock College Auxiliary Programs Corporation is a nonprofit, tax-exempt, 501(c)(3) corporation organized to further the educational purposes of the college. Through an agreement with the college district, corporation activities include the bookstore, the Pacific Conservatory for the Performing Arts, the Associated Student Body and co-curricular programs including athletics and clubs.
Various support services and labs help students reach their goals.
Students who desire to attend Allan Hancock College must meet academic and residence requirements and must complete the college admissions procedure.

**ADMISSIONS PROCEDURE**

Students will be admitted to Allan Hancock College if they have graduated from an accredited high school or have passed the High School Proficiency Examination or the GED. Students who have not graduated from high school may be admitted to the college if they have attained the age of 18 and are able to profit from the instructional program. Allan Hancock College has adopted the START process as a means of determining its students' ability to benefit from the various curricula it offers. This process assesses a student's readiness for enrolling in college level classes and identifies those who require pre-collegiate basic skills instruction in order to succeed in college-level classes. The assessment process includes not only measures of language and computational skills but also consideration of students' aptitudes, study skills, educational goals and support service needs. Those students whose non-native speaking status, learning disability or physical status precludes accurate assessment by the START battery will be administered the English as a Second Language test or referred to the Learning Assistance Program for appropriate assessment.

All males seeking admission to Allan Hancock College: Assembly Bill 397 (Kuykendall): Selective Service Registration (Chapter 575/1997), effective Jan. 1, 1998, requires that admissions offices at public postsecondary institutions make "every reasonable effort" to inform all male applicants for admission to the college of their obligation to register for the Selective Service. For details on how to register with the Selective Service, contact the nearest United States Post Office. The enactment of AB 397 prohibits anyone who fails to register with the Selective Service from receiving financial aid from any programs administered by the Student Aid Commission. Forms are also available at the Admissions and Records office.

**RESIDENCE REQUIREMENTS**

**Legal Requirements**

California state law requires that each student enrolled in or applying for admission to a California community college provide information and evidence as deemed necessary by the Board of Trustees of the Allan Hancock Joint Community College District to determine his/her residence classification.

**Rules of Residency-Adults Over 19 Years of Age**

*Note: No one factor is controlling - all three criteria must be met. The responsibility for establishing residence lies with the student.*

A student over 19 years of age may establish California residency by meeting the three requirements listed below.

1. Verify physical presence in California one year prior to the day before the start of the semester. Residency is determined by union of act and intent. The one-year period begins when the student is not only present in California but also has demonstrated clear intent to become a permanent resident of California.

2. Clearly verify an intent to make California a permanent place of residency by:
   - Filing California state tax as a resident;
   - Maintaining California as legal state of residence on Leave and Earnings Statement (LES) and W-2 form while in the armed forces for one year prior to the start of the semester of enrollment;
   - Possessing California motor vehicle license plates and registration;
   - Possessing a valid California driver’s license or a Department of Motor Vehicles ID card;
   - Registering to vote and voting in California.

3. Not be involved in conduct inconsistent with a claim of California residency. Some examples of inconsistent conduct which nullify intent are:
   - Maintaining voter registration in another state;
   - Being a petitioner for divorce in another state;
   - Attending an out-of-state institution as a resident of that state;
   - Declaring nonresidency for state income tax purposes;
   - Retaining a driver's license and/or keeping a vehicle registered in another state during the time period for which California residence is claimed; and/or
   - Paying as a resident state income tax in another state.

**CALIFORNIA NONRESIDENT TUITION EXEMPTIONS**

Assembly Bill 540 (Stats. 2001, ch. 814), which was enacted into law on Oct. 12, 2001, added a new section 68130.5 to the California Education Code. Section 68130.5 creates a new exemption from payment of nonresident tuition for certain nonresident students who have attended high school in California and received a high school diploma or its equivalent. The law became effective on Jan. 1, 2002.

This law does not affect current Title 5 regulations concerning residency. Those regulations remain in effect; changes are not anticipated. The law does not grant or amend current residency rules but rather provides for an exemption from nonresident tuition for certain nonresident students.

Students must meet all requirements in section 68130.5 (a) (1) - (4) to be eligible for the exemption.

1. The student must have attended a California high school for three or more years. There are no provisions for partial attendance (e.g. two years and 7 months). The law does not require consecutive attendance nor
require that the student attended the last three years in California (in the case of four-year high schools). Such attendance could be at multiple California high schools. Attendance at continuation high schools, charter high schools, and K-12 approved independent education is acceptable. Attendance at a home school is not acceptable unless the home schooling was provided in a manner recognized under state law. The law does not distinguish between public and private high schools. There is no time limit on how far in the past the student might have attended a California high school.

2. The student must have graduated from a California high school or attained the equivalent thereof (e.g., a GED or a high school proficiency exam). There is no time limit on how far in the past the student might have attained this status.

3. In the case of a student without lawful immigration status, an affidavit must be filed with the college that indicates the student has applied for legalization or will do so as soon as the student is eligible to do so. The law does not require the institution to explore the student's eligibility for legalization nor does it require the institution to monitor future changes in eligibility. Students may obtain the "student affidavit for exemption from nonresident tuition" at the Admissions and Records office.

4. Except for nonimmigrant aliens, any nonresident student who meets the first two requirements shall be exempted from nonresident tuition even if he or she is a US citizen or lawful immigrant; however, they will not be classified as California residents.

Students who meet the exemption requirements and who are unlawful immigrants are not eligible for any federal or state financial aid program (e.g., EOPS or for purposes of a BOG Fee Waiver).

Seasonal Agricultural Exemption

The student must provide evidence that the student himself or herself, or the student's parents with whom the student is living, earns a livelihood primarily performing agricultural labor for hire in California and has performed such labor for at least two months in each of the preceding two years.

These exemptions are not available for persons who are absent from California, but who are taking distance learning education classes from California community colleges.

The student must file an exemption request with the college, including a signed affidavit, which indicates that the student has met all applicable conditions described above. Affidavits are available at the Admissions and Records office. Nonresident students meeting the criteria will be exempted from the payment of nonresident tuition, but they will not be classified as California residents. They continue to be "nonresidents".

Students Associated with the Armed Forces

Students who are members of the armed forces of the United States and their dependents stationed in this state on active duty, except those assigned to California for educational purposes, are exempt from nonresident tuition. There is no requirement for the military person to establish residence; however, the student must be on active duty on the residence determination date. If a nonresident student who is a member of the military becomes separated from the military, he or she would be required to provide evidence of intent to establish California residence for a minimum of one year prior to the residence determination date. Effective Jan. 1, 1996, Assembly Bill 723 was added to the California Education Code to allow a member of the armed forces who was stationed in California on active duty for more than one year prior to being discharged from the service, to claim resident classification for up to one year he or she lives in California after being discharged. After the one-year exception, the student would have to prove California residence had been established.

International/Foreign Students

Allan Hancock College is authorized under federal law to enroll nonimmigrant alien students. Such students, regardless of age, have nonresident status and will be assessed appropriate tuition. The U.S. Department of Homeland Security/Citizenship and Immigration Services precludes foreign students from establishing residency. Admission to Allan Hancock College requires completion of an International Student Application and acceptance to the college. International student applications are available at the Admissions and Records office, by phone and by email. A TOEFL score of 475 on the paper test, 153 on the computerized test or 53 on the Internet-based test is required for admission. Once accepted, international students must maintain full-time status (12 semester units) for each semester in which they are enrolled.

A student classified as an international student will be required to pay tuition as a condition of and at the same time of enrollment in an amount set forth by the Board of Trustees of the Allan Hancock Joint Community College District.

Nonresident Students

A student classified as a nonresident will be required to pay tuition as a condition of and at the same time of enrollment in an amount set forth by the Board of Trustees of the Allan Hancock Joint Community College District. Information regarding tuition fees and refunds is found in the fees section of this catalog.

Incorrect Classification

A student incorrectly classified as a California resident is subject to reclassification as a nonresident and payment of nonresident tuition. If incorrect classification results from false or misleading statements, a student may be excluded from class or classes upon notification.

Reclassification

Reclassification to resident status must be requested by the student. Financial independence during the current year and preceding two years will be considered at the time the student requests reclassification. Information regarding requirements for reclassification is available in the Admissions and Records office.

Tuition fees may not be refunded to a student classified as a nonresident due to lack of documentation if at a later date documentation is presented for that previous semester.

Limitation of Residency Rules

The student is cautioned that this summary of rules regarding residency determination is by no means a complete explanation of their meaning or content. The student should also note that changes may have been made in the statutes
and regulations between the time this statement is published and the beginning of the semester.

Further information regarding residency is available from the residency technician in the Admissions and Records office.

**VETERANS AND SERVICE MEMBERS**

Allan Hancock College has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of more than 400 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. Servicemembers Opportunity Colleges are sponsored by the American Association of State Colleges and Universities and the American Association of Community and Junior Colleges.

As an SOC member, Allan Hancock College recognizes the unique nature of the military lifestyle and is committed to allowing the transfer of relevant course credits and to crediting learning from appropriate military training and experience. With the completion of any 12 units at Allan Hancock College, in-service personnel may complete work toward the degree regardless of subsequent military assignment. This is accomplished through a "Contract for Degree."

**Credit from Military Service**

To receive college credit for basic military training and active duty, all veterans and active duty military personnel must request a military transcript. Request forms are available in the Financial Aid and Counseling offices. Credit for basic training will be awarded according to the ACE Guide recommendation.

In addition, a veteran may receive credit for special courses taken while in the service if those courses have been approved by the American Council on Education's publication, "Guide to the Evaluation of Experiences in the Armed Services," and if official notices of completion of such courses are submitted for evaluation, or if the courses are posted on the discharge paper. This institution will conduct an evaluation of previous education and training, grant appropriate credit, shorten the veteran or eligible person's duration of the course proportionately and notify the VA and student accordingly. Individual course evaluation by the appropriate department chair is required if the previous service school training is to be applied toward satisfying part of the general education graduation requirements or part of the student's major.

For additional information, contact the veteran's coordinator. See also Veterans Affairs under the Student Services section of this catalog.

**ENROLLMENT PROCEDURES**

**All Students**

Individuals who wish to enroll in Allan Hancock College for credit day or evening classes must file the required official documents with complete and accurate information as requested at the Office of Admissions and Records. Some curricula have special admissions procedures and deadlines (see the Announcement of Courses section). Admission applications are to be completed and submitted online through the AHC website at [www.hancockcollege.edu](http://www.hancockcollege.edu). Students who do not possess a valid social security number must complete an admission application at the Santa Maria campus Office of Admissions and Records, the Lompoc Valley, Vandenberg AFB, or the Solvang centers.

Once submitted, the admission application and any supporting documents become the permanent property of the college and will not be returned to the applicant. Applicants who fail to provide accurate information will not be considered for admission nor allowed to remain in attendance if discrepancies are discovered after enrollment.

To prevent delays in processing their registration, all new, continuing and returning students are encouraged to have their transcripts submitted to Allan Hancock College before enrolling for their first semester. Programs with special requirements such as nursing, fire academy, police academy and varsity athletics, as well as financial aid, require a student to file all high school and college transcripts to verify eligibility. Transcripts or grade reports are required for validation or proof that course prerequisites have been met before a student may be allowed to register for a particular course. Students should consult the schedule of classes or the college catalog for course prerequisites. The transcripts should be directed to the Allan Hancock College Admissions and Records Office, Attn: Transcript Evaluator, 800 S. College Dr., Santa Maria, CA 93454-6399.

Allan Hancock College will retain these transcripts in the Admissions office. The college is not required to maintain files beyond three years except for actively enrolled students. Therefore, students should be aware that these records are periodically purged and copies of these high school, college and university transcripts are destroyed.

Before registering for classes, most students will need to attend a START session. START sessions are composed of three parts: assessment in reading, writing and math; orientation to the college; and advising by counselors and faculty regarding course selection. A schedule of START sessions is available at the testing office in building T on the Santa Maria Campus, the Counseling department at all sites or from the Student Services, Testing Center website at [www.hancockcollege.edu](http://www.hancockcollege.edu). See Matriculation: START for further information on START.

**MATRICULATION: START (Student Testing, Advisement, Retention and Transition)**

Matriculation is a process that brings Allan Hancock College and a student who enrolls for credit classes into an agreement for the purpose of realizing the student's educational goal through the college's established programs, policies and requirements. This agreement includes responsibilities for both the college and the individual student.

The student's responsibilities under this agreement include:

1. Expression of at least a broad educational intent upon enrollment;
2. Declaration of a specific educational goal after completion of 15 semester units of degree applicable credit course work;
3. Participation in orientation, assessment, counseling/academic advisement and other follow-up support services deemed necessary by the college for the completion of the student's stated educational goal;
4. Becoming familiar with the college catalog, class schedules, handouts and other student materials which detail college policies and procedures;

5. Diligence in class attendance, as required by the instructor, and completion of assigned course work;

6. Completion of courses and maintenance of progress toward an educational goal.

The responsibilities of Allan Hancock College under this agreement will entail providing appropriate matriculation services which shall include:

1. The processing of applications for admission;

2. The provision of an orientation process designed to acquaint students and potential students with college programs, services, facilities and grounds, academic expectations and college policies and procedures;

3. An assessment process using multiple measures to determine academic readiness in English, reading and math with special accommodation(s) and alternate assessments available for students with special needs;

4. The opportunity for additional assessments designed to assist students with the evaluation of their study skills and/or the identification of their interests, aptitudes and educational objectives;

5. Counseling/advising services to assist students in course selection, development of the student educational plan and utilization of campus support services;

6. A follow-up process to monitor a student's progress and provide necessary advisement toward meeting educational goals;

7. The offer of additional advisement and counseling assistance to students who have not declared an educational goal, are enrolled in credit basic skills courses, are on academic probation or have been identified as being at risk of not completing their educational goals.

**Matriculation Retest and Exemption Policy**

**ASSESSMENT:** All students who enroll or plan to enroll for credit classes at Allan Hancock College are encouraged to make full use of all matriculation services. Exemptions are subject to revision pursuant to changes made by board policy which may not be available at the time of catalog publication. A student may retake the test once under the following conditions:

1. At least two weeks have passed since the first test (to allow for extra study and preparation), and

2. The original test scores are within 5 points of reaching the next placement level of math, English and/or ESL.

Students may file an appeal with the dean, student services/counseling and matriculation.

**EXEMPTION:** Students may be exempt from assessment if they meet one or more of the following criteria:

1. Are transferring from another accredited postsecondary institution and have completed the equivalent of the prerequisite to freshman composition or higher with a grade of C or better (exempt from English portion of assessment);

2. Are transferring from another postsecondary institution and
   a. Have completed Algebra 2 or higher with a grade of C or better; or
   b. Have completed any other math course with a grade of C or better within the last three years (Exemptions in #2 apply to math only);

3. Present scores from an assessment test currently in use by Allan Hancock College and taken within the past three years;

4. Have an associate degree or higher from an accredited institution;

5. Are taking courses only to upgrade occupational skills or as continuing education related to current employment and are enrolling in no more than nine units;

6. Are taking only courses which are not dependent on academic skill prerequisites (such as some PE, art, dance and music courses) and are enrolling in no more than nine units;

7. Are enrolling in six units or less (except English and math courses) and have goals that do not include working toward a certificate, an associate of arts degree, associate of science degree or transfer;

8. Receive credit by examination for English (exempt from English portion only) and/or math (exempt from math portion only) from department-approved Advanced Placement (AP), College Level Examination (CLEP) or Defense Activity for Non-Traditional Education Support (DANTES) test(s).

**COUNSELING AND ORIENTATION:** Students may be exempt from counseling and orientation if they meet one or more of the following criteria:

1. Have an associate degree or higher from an accredited institution;

2. Have previously completed 12 or more units at Allan Hancock College;

3. Are taking courses to upgrade occupational skills or as continuing education related to current employment and are enrolling in no more than nine units;

4. Are taking courses not dependent on academic skill prerequisites (such as some PE, art, dance and music courses) and are enrolling in no more than nine units;

5. Are enrolling in six units or less (except English and math courses) and are not working toward an associate of arts or associate of science degree or transfer.

**Matriculation Appeals Procedure**

If a student feels that assessment, orientation, counseling, course prerequisites or any other matriculation procedure or service is being applied in a discriminatory manner, an appeal may be filed with the Dean of Student Services, Counseling and Matriculation. Within 10 working days of the receipt of the appeal, the student will be notified of the college's proposed response to the complaint and any additional steps which will be taken. Approved appeals are valid for one year from the date of the approval.
If a student believes the prerequisite has been met by other means, an appeal for prerequisite equivalency can be filed with the dean, student services/counseling and matriculation.

All pre and/or corequisites that are stated in this catalog have been established according to policy approved by the Allan Hancock College Board of Trustees.

**High School Students Enrolling at Allan Hancock College - College Now! A Concurrent Enrollment Enrichment Program**

High school juniors and seniors who have been recommended for enrollment by their principal or designee are encouraged to enroll in Allan Hancock College approved courses. All high school students are required to meet with their high school counselor to discuss eligibility for enrollment, to obtain necessary signatures of approval and to complete the College Now! Petition for Enrollment form. Students and high school counselors should obtain College Now! forms included on the list of approved courses by logging on to the college website, www.hancockcollege.edu, and selecting College Now! in the Quick Links drop down menu. Students must achieve a START placement of English 301 or higher, AND Reading 110 or higher in the courses that are designated with an asterisk on the College Now! web page to qualify for the College Now! program. An application for admission must be completed and included with the regular registration materials. First-time College Now! students who are home schooled are required to provide a current copy of their private school affidavit on file with the California Department of Education at the time of registration. Continuing home schooled students must have a current affidavit on file at Allan Hancock College. Home schooled students must be at the junior or senior academic level.

Concurrent enrollment is limited to students enrolled in Santa Barbara and San Luis Obispo county high schools who are residents of Santa Barbara or San Luis Obispo counties.

The enrollment fee is waived for approved College Now! students enrolling in six units or less. College Now! students must pay the following fees: health, student photo ID card, physical education facilities, Student Center (Santa Maria campus only), student representation, parking, instructional materials and nonresident tuition fees (if applicable).

College Now! students are limited to six units of approved courses per semester. College Now! students must obtain and submit an official copy of their high school transcript verifying a minimum 2.5 unweighted high school grade point average. Only high school juniors and seniors are allowed to enroll in College Now! All college units and grades earned are recorded on the student’s permanent college transcript. Receiving substandard grades and/or failure to complete coursework may affect future financial aid eligibility. Students must secure permission from their school district each semester, term or session. Students who do not meet the aforementioned requirements and have exceptional circumstances may appeal to the Dean of Student Services, Counseling and Matriculation for consideration. Requirements open to appeal include: holding a 2.5 GPA and/or Junior/Senior standing and/or enrolling in excess of six units. Appeal forms are available in the office of the Dean of Student Services, Counseling and Matriculation. Students may not appeal to take courses that are not on the approved College Now! List. Students interested in this program should contact their high school counselor, or log on to the college website at www.hancockcollege.edu.

**INTERNATIONAL / FOREIGN STUDENTS**

Allan Hancock College has been approved by the United States Department of Homeland Security/Citizenship and Immigration Services to accept qualified applicants from foreign countries who are interested in attending Allan Hancock College on a valid F-1 visa. An international student is a person who is a citizen and resident of another country, and is in the United States on an F-1 “student visa” or other allowable visa. Students who are in the United States on an F-1 student visa may not establish residency. The Immigration and Nationality Act, 8 U.S.C., 1101 (a) (15), as amended by Immigration Act of 1990, Public Law 101-649, precludes international students holding F-1 visas from establishing domicile in the United States and also states that they shall not be classified as a resident of this state.

All inquiries for admission should be addressed to the Office of Admissions and Records, Attn: International Student Technician, 800 S. College Dr., Santa Maria, CA 93454-6399.

Due to the district’s limited financial resources and space, and due to the special educational needs of international students, the Allan Hancock Joint Community College District reserves the right to limit the number of F-1 international students admitted each year.

**Admission Requirements for International Students on an F-1 Student Visa**

International student application materials must be received in the Admissions and Records office by June 1 for fall admission and November 1 for spring admission. Students on an F-1 visa are required to be full-time students and must maintain a minimum of 12 semester units. According to immigration policy, international students may work 20 hours a week, on campus only.

1. Submit a completed application for admission and declare an educational objective.

2. Provide evidence of sufficient facility in the use of the English language to ensure proper progression in a collegiate course of study. To provide this evidence, Allan Hancock College requires one of the following:
   a. Satisfactorily passing the Test of English as a Foreign Language (TOEFL), periodically administered in the student’s home country by the Educational Testing Service. A score of 475 on the paper test, 153 on the computerized test or 53 on the Internet-based test is required for admission. For more information on the TOEFL, visit their website, at www.TOEFL.com. To report the TOEFL score to Allan Hancock College, please use code 4002. Students with a TOEFL score of less than 475 are required to take the Allan Hancock College English as a Second Language (ESL) assessment test for placement into the appropriate ESL classes. Students with a score of 475 or more on the TOEFL are required take the Allan Hancock College START test.
   b. Satisfactorily passing a course in oral and written English in an institution in the United States.
3. Submit a confidential statement of finance that verifies financial capability for the costs of attending Allan Hancock College, or affidavits guaranteeing financial support from responsible resident citizens of the United States. The college does not provide financial assistance for international students.

4. Submit all official transcripts from previously attended and recognized international institutions along with a transcript evaluation translation report. For more information about Allan Hancock College’s approved transcript evaluation agencies, please contact the Office of Admissions and Records at (805) 922-6966 ext. 3248.

5. Provide proof of major medical insurance coverage. If needed, the college can provide information on policies available to international students.

6. Submit proof of measles immunization and tuberculosis (TB) test.

OUT-OF-STATE STUDENTS

Students applying to Allan Hancock College who have not resided in California for the minimum time required to establish residency (see Residency) will be determined to be nonresidents for tuition purposes. Out-of-state students planning to apply for federal or state loans will need to obtain such loans prior to applying to Allan Hancock College. All student fees, including nonresident tuition, must be paid at the time of registration.

REGISTRATION

Registration for credit classes is held prior to the beginning of each term/semester. Students who have applications for admission on file may utilize online registration (offered on a priority basis). First-day priority is assigned to participants of the college’s Learning Assistance Program (LAP), Extended Opportunity Programs and Services (EOPS) department, any member or former member of the United States Armed Forces within two years of leaving active duty and designated pre-nursing majors. Continuing, returning and new students who have completed the testing and advising process, or are exempt (see Matriculation Exemption Policy), may use online registration. Online registration is available to all students. Specific online registration dates for each term/semester are published in the schedule of classes and on the college website.

Prior to registration for each semester or term, complete information about classes offered and registration procedures is available online at www.hancockcollege.edu. Click Class Search on the home page to view the most current class schedule. For registration procedures and other services and requirements, click Important Information. Printed class schedules are also made available at all college locations and local public libraries free of charge, while supplies last.

FEES AND EXPENSES

Fees are payable at the time of registration. Arrangements for deferred payment of fees may be made for students paying nonresident tuition. Nonresident students interested in a payment plan must contact Auxiliary Accounting prior to enrolling.

Schedule of Classes

Complete information about classes offered and registration procedures is available online at www.hancockcollege.edu. Click Class Search on the home page to view the most current class schedule. For registration procedures and other services and requirements, click Important Information. Printed class schedules are also made available at all college locations and local public libraries free of charge, while supplies last.

Enrollment Fee

There is an enrollment fee of $26 per unit for all students classified as California residents.

Health Fee

A health fee of $17 ($14 for summer) is charged to all students. The health fee covers the following benefits: student accident insurance, free health consultation by the college nurse, availability of personal counseling and a substance abuse prevention program.

All health fees collected are used exclusively to provide health services.

Health Fee Exemptions (Education Code Section 76355):

1. Any student who depends exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination or organization, provided that the student presents documentary evidence of an affiliation with such a bona fide religious sect, denomination or organization.

2. Any student who is attending Allan Hancock College under an approved Apprenticeship Program.

Health Fee Exemptions (Board Policy 6300):

1. Continuing EOPS students;

2. Prisoners at Lompoc Federal Correction Institution (FCI);

3. Residents of the Atascadero State Hospital.

Materials Fee

A materials fee may be required for certain courses listed in the class schedule. See individual course listings in the current class schedule for this information. Please note that BOG does not waive these fees.

Student Center Fee

Each student enrolled in one or more classes at the Santa Maria and South campuses is required to pay a Student Center Fee. The fee was established by students to help fund the remodel and operation of the Student Center. The Student Center Fee is $1 per unit up to a maximum of $10 per year (summer session through spring semester). Students are not required to pay a fee for classes taken at the Lompoc Valley, Vandenberg AFB or Solvang centers, or for classes at other off-campus locations. For adds/drops, lateral changes or academic skill level changes, for the same number of units at the same campus location, students will not incur an additional Student Center Fee. Students are also exempt from paying the Student Center Fee if they are a recipient of benefits under the Aid to Families with Dependent Children program, Supplemental Security Income/State Supplemental Program, General Assistance Program or a recipient of a Board of Governor's Fee Waiver (BOG-FW). Eligibility for these exemptions must be verified through the Financial Aid office.
Student ID Card Fee

An Allan Hancock College ID card is required to check out and/or use all learning resources materials and to use the computer, writing and other open access computer labs.

Students may purchase a photo ID card by paying a $2 fee per academic year at the district cashier in Santa Maria or at the administrative offices of the Lompoc Valley, Solvang or Vandenberg AFB centers. In addition to the privileges listed above, students may use the photo ID card to purchase tickets at a discounted rate for performances of the Pacific Conservatory of the Performing Arts (PCPA) and at AHC athletic events. There is a $2 replacement fee for a lost photo ID card.

A basic ID card, without a photo and at no cost to the student, may be obtained one time at the Santa Maria campus Admissions and Records office or the Community Education Building, or at the administrative office at the Lompoc Valley Center.

Nonresident Tuition (for out-of-state and foreign students)

In addition to the mentioned fees, foreign and out-of-state students will be assessed tuition in the amount of $190 per unit.

Student Representation Fee

The Student Representation Fee of $1 provides support for student representatives to lobby for legislation such as bills to keep enrollment fees at the lowest possible level. However, students may, for religious, political, financial or moral reasons, refuse to pay the Student Representation Fee by selecting the “opt out” box online during their registration process. They may also go to the Santa Maria campus Cashier office in building A, or the administration office at the Lompoc Valley, Solvang or Vandenberg AFB center, and fill out a waiver request form.

Physical Education Equipment Fees

Students in Physical Education classes will be assessed fees for not returning issued athletic equipment.

Parking Fees

Parking fees are collected for the maintenance and improvement of the parking lots and for the control of traffic. Such fees apply to all staff and student vehicles parked on the Santa Maria main campus and South Campus and at the Lompoc Valley Center between the hours of 8 a.m. and 10 p.m., Monday through Thursday, and 8 a.m. to 4 p.m. on Friday, when classes are in session. Parking fees will be collected and vehicles registered at the time of online class registration. Parking fees may also be collected and vehicles registered at the district cashiers located in building A and at the Lompoc Valley Center Administration Building. Parking permits will be issued at the time parking fees are paid.

Four-wheel and two-wheel motor vehicles............$20/Semester
Daily parking permit............................................$2

Daily parking permits are valid for one calendar day and may be purchased from one of the vending machines located near the parking lots. Exact change is required for the vending machines—no change or refunds are given.

There is no parking fee at the south side of the Columbia Business Center (CBC), at the Workforce Resource Center (WRC), or at the Vandenberg Air Force Base (VAFB) and Solvang centers. A special no-charge permit is required by the Air Force for entry onto the base. For more information, contact the Vandenberg AFB Center at (805) 734-3500.

For further information about traffic and parking regulations, students should refer to the Allan Hancock College Police Department website, Campus Police, Parking, or contact the police department at the Santa Maria campus at (805) 922-6966 ext. 3652, or the Lompoc Valley Center at (805) 922-6966 ext. 5652.

Waivers/Exemptions

Waivers/exemptions to the above listed fees may be granted under unusual circumstances. Information concerning exceptions to fees or tuition is available at the Admissions and Records and Financial Aid offices.

Textbooks

All students provide their own textbooks. The cost varies according to the degrees/certificates, but usually does not exceed $810 per semester. Supplementary materials for some courses are sold through the bookstore.

Laboratory Breakage

All students enrolled in lab shop courses are required to replace items broken or lost.

Fines

Fines are assessed for lost library materials and for loss or damage to college or associated student body equipment.

Minimum Expenses

In addition to the above, minimum expenses per semester include transportation, medical expenses, clothing, incidentals, meals and accommodations. Because there are no college dormitories, students should plan to spend $225 to $650 per month for shared housing in the community and $15 to $25 per day for meals.

Obligation for Payment

Tuition of all students, including those whose tuition payments have been deferred, becomes an obligation to the college. Failure to make payments of tuition, fees or other amounts owed the college when they fall due is considered sufficient cause to 1) bar students from enrolling in additional classes or dropping current enrollment and registering in subsequent terms/semesters; 2) withhold diploma, certificate or transcript of records; and/or 3) drop students from their existing program if classes have not yet started.

Additional Fees

Information concerning any additional fees which may be mandated will be published widely in the local media prior to registration dates.
REFUND OF FEES

The health fee, student photo ID card fee and parking permit fee are refundable if the student drops all of their classes by the first day of the semester.

The enrollment fee, nonresident tuition fee, student representation fee, Student Center fee, physical education facilities fee and materials fees are refundable. Classes must be dropped within 10 percent of the scheduled class time. The deadlines for your class(es) are listed online under the My Account, Refund Deadlines. To view your student account schedule bill, log on to myHancock, select Student tab, then click Refund Deadlines in the My Account channel. For one-week classes, students must drop no later than the day before class begins. You may apply for your refund online or an application for a refund may be completed and submitted to a district cashier. Routine refunds are processed within 45 days.

Canceled Classes

In the event that the college cancels a class for any reason and the student chooses not to re-enroll in any other course, the student may obtain a refund of fees paid for the course by officially dropping the canceled class. The process of obtaining the refund is the same as for voluntary withdrawals, except for the refund deadline. Refunds for classes which are canceled by the college are exempted from the posted refund deadlines. Please remember that students must officially drop a canceled class at the Santa Maria Admissions and Records office or at the Lompoc Valley, Vandenberg AFB or Solvang centers. A student may also drop by U.S. mail. The Drop Card Form is available for download from the AHC website www.hancockcollege.edu (click Admissions & Records).

Refund Processing Fee

Refund of the enrollment fee is subject to a $10 refund processing fee. For any student requesting a refund, unless the class was canceled by the college, a refund processing fee of $10 will be withheld from the refund. If the refund is less than $10, the college will retain that amount for the processing fee. A maximum of $10 may be retained each semester.

Parking Fees

Parking fee refunds, except for Daily Permits, will be given up to the first day of the semester to those students who withdraw from all classes. To receive a refund, the student must submit to the Director, Public Safety/Chief of Police proof of withdrawal, a refund request form, the parking fee receipt and the parking permit.

Exceptions to Refund Policy

Enrollment Fees: 1) An exception may be requested if, due to extenuating circumstances (i.e., family emergencies, illness, employment), a student was not able to drop classes by the published deadline. 2) The extenuating circumstances must have occurred prior to the drop deadline. 3) All situations require written verification from an official source and must have occurred prior to the refund deadline. 4) A letter of appeal with the appropriate verification documentation must be submitted to the vice president, student services.

Parking Permit Fee: Follow steps one through three listed above. Step 4) A letter of appeal with the appropriate verification documentation must be submitted to the director, public safety/campus police.
Students experience hands-on learning with the latest equipment.
COUNSELING

The counseling program at Allan Hancock College is committed to helping each student develop his or her full educational, career and/or social potential.

Counseling services are an essential part of the total educational process of the college. The purpose of counseling services is to assist students in achieving their educational goals, including academic, career and personal development.

The college's comprehensive counseling program is designed to:

1. Assess the academic skill level of students and assist them in the selection of educational goals and the development of an individual student educational plan (SEP) to achieve those goals.

2. Assist students to assess their own aptitudes, abilities, and interests; obtain current and future employment trend information; and develop career and vocational decision-making skills.

3. Assist students who are experiencing personal problems that are interfering with their adjustment to college and provide information on other appropriate services in the community.

4. Assist students to identify barriers to academic success and to develop strategies to overcome those barriers.

5. Assist students who have been placed on academic and/or progress probation to develop individual plans for improvement of their academic performance.

6. Assist students to prepare for transfer to four-year colleges/universities and develop procedures to facilitate their transfer.

7. Outreach to potential students in high schools and the community and organize visits to the college.

8. Coordinate and complement the counseling functions of other student support services including services to students with special needs, skill testing, financial aid assistance, job placement, job referrals and referral to resources in the community.

Counseling services are available to all Allan Hancock College students on an appointment or walk-in basis at the Santa Maria campus and the Lompoc Valley Center.

Educational Planning

Allan Hancock College counselors provide a variety of services to assist new and continuing students with their educational planning. These include visiting high schools in the district, coordinating trips to the college by high school students and their counselors and conducting placement testing and preregistration counseling prior to each semester in order to assist students in selecting appropriate courses in accordance with their stated educational and vocational objectives. In addition, counselors assist students planning to transfer to a four-year college or university by helping them select appropriate courses for their chosen majors and by counseling them in making the transition from Allan Hancock College to the four-year school. Students, however, must accept full responsibility for their educational objectives and transfer choice.

Personal Development Courses

The personal development courses offered by the Counseling Department are designed to assist new and returning students alike to develop themselves in an environment that is both non-threatening and supportive. The courses enable the student to learn skills that are applicable not only in the educational setting but for life in general. It is the intent of the program to encourage and enable students to integrate their academic goals, personal values, interests, skills and personality in order to meet their personal, academic and career goals.

Student Athlete Retention

In keeping with Allan Hancock College's conviction that academics come first, the college operates a Student Athlete Retention Program designed to enhance athlete success in the classroom. The program offers a designated academic coordinator, a dedicated computer lab for student athletes and a student success course specifically designed for the student athlete. Student-athletes are required to participate weekly in three hours of mandatory study hall. The academic coordinator works closely with the student athlete retention coordinator to monitor academic progress through grade checks and ensure academic eligibility standards are met. The athletic director, college administrators, faculty, academic and retention coordinators, eligibility clerks and coaches make up a team of committee members who identify needs and outline parameters of this program.

UNIVERSITY TRANSFER CENTER

The University Transfer Center provides valuable information and assistance to students who plan to transfer to a four-year college or university after completing their lower division courses at Allan Hancock College. Counselors are available in the University Transfer Center to assist students with this goal.

The mission of the University Transfer Center is to identify, recruit and motivate students of diverse backgrounds to make well-informed decisions as they navigate the university transfer process and complete a baccalaureate degree and beyond.

University Transfer Centers are available at both the Santa Maria campus and the Lompoc Valley Center.

Priority Admission Transfer

Transfer can be a complicated process. The Priority Admission Transfer (P.A.T.) program exists at Allan Hancock College to simplify the process and ensure students a smooth transition to four-year colleges and universities. While some universities offer transfer guarantees, at other colleges it is ultimately the student's responsibility to successfully complete the correct classes and earn a competitive GPA. Students who follow the P.A.T. plan will earn priority admission consideration during the application process. Students planning to transfer must work closely with a transfer counselor in order to complete the specific guidelines for the P.A.T. program and to develop and complete an approved course of study for the specific institution to which they wish to transfer. The following colleges and universities are included:
California State University, East Bay (guarantee)
California State University, Monterey Bay (guarantee)
University of California, Davis (guarantee)
University of California, Irvine (guarantee)
University of California, Merced (guarantee)
University of California, Riverside (guarantee)
University of California, San Diego (guarantee)
University of California, Santa Barbara (guarantee)
University of California, Santa Cruz (guarantee)
Brandman University/Chapman University System, Santa Maria Valley Campus (guarantee)
University of La Verne, Central Coast Center*
Embry Riddle Aeronautical University, VAFB*
Antioch University, Santa Barbara*
Columbia College, San Luis Obispo Center*
* Admits all eligible AHC transfer students

HEALTH SERVICES
The objective of Health Services is to promote and preserve the physical and mental health of students. Services include first aid for accidents and illnesses, including over-the-counter medications; blood pressure screenings and referrals to community agencies, doctors and clinics. The primary care clinic at the Santa Maria campus provides a nurse practitioner and physicians to assist students with prescriptions for some medications and laboratory tests. To maintain a high level of wellness, Health Services provides health education, health screenings, health and nutrition counseling and a variety of campus-wide programs. These services are available at the Santa Maria campus and the Lompoc Valley Center. Services are available at the Vandenberg AFB Center by appointment only. Registered nurses are available during regular posted hours. There is no charge for most services.

Mental Health Services
Students who are experiencing personal problems which may be interfering with their adjustment to college may obtain help from college mental health professionals who are available for both individual and group counseling and, when indicated, can act as referral agents and advocates to community agencies. Confidential services are available in the Health Services office. Students may be seen by appointment or on an emergency drop-in basis. There is no charge for these counseling services.

Student Insurance
Allan Hancock College provides a limited accident insurance policy for students during their hours on campus or while they are participating in a college-sponsored activity or sport. Health Services provides information brochures about health insurance policies that students may purchase.

FINANCIAL ASSISTANCE PROGRAMS
Allan Hancock College recognizes that many students will need financial help in order to attend school. The money that is available comes from several sources: the federal government, state government, lending institutions, Allan Hancock College and the community. Financial assistance comes in the form of grants, loans, scholarships and/or work study assignments. A general description of each program follows. The Financial Aid office will provide additional information and applications to anyone interested.

Informacion de la ayuda financiera y aplicaciones son disponible en español.

GRANT PROGRAMS

Board of Governors Financial Assistance Program
California community colleges provide Board of Governors Fee Waiver (BOG-FW) for students who need assistance paying enrollment fees. California residents may be eligible for a BOG-FW if any one of the following criteria is met:

1. Already qualified for financial aid, such as a Federal Pell Grant or Cal Grant; or
2. Student or family are receiving CalWORKS, SSI (Supplemental Security Income) or General Assistance/General Relief; or

Dependents of deceased or disabled veterans who are eligible for benefits under the California Veterans Dependents Educational Assistance program can also have their fees waived with a BOG-FW.

Once granted a BOG-FW, enrollment fees will be waived for the academic year (summer, fall and spring semesters), whether taking one class or a full-time load. Any student who receives a BOG-FW will automatically qualify for a waiver of the Student Center fee.

Federal Pell Grants
The Federal Pell Grant Program is the largest federal student grant program. Pell Grants provide financial aid to which aid from other sources may be added. A student must qualify financially and be in an eligible program in order to receive this grant. Eligibility for a Pell Grant is determined by the federal government according to a formula developed by the U.S. Department of Education and approved annually by Congress.

Federal Supplemental Educational Opportunity Grants (FSEOG)
The Federal Supplemental Educational Opportunity Grant Program is designed to supplement other sources of financial aid for students who qualify for additional assistance. These grants range from $200 to $600. All students who apply for financial aid are automatically considered for the Federal Supplemental Educational Opportunity Grant as long as funds are available.

Cal Grants A, B, C (State Grants)
These are three state grant programs available through the California Student Aid Commission. To qualify for a Cal Grant A, B, or C, a student must be a U.S. citizen or an eligible noncitizen, a permanent resident of this country and a California resident. A student may accept only one Cal Grant.
Cal Grant A
Cal Grant A helps low- and middle-income students with tuition/fee costs. Grant recipients are selected on the basis of financial need and grade point average. The grant may be held in reserve for students who attend a public community college until transfer to a four-year college. To be eligible for a new (first-time) Cal Grant A, a student may not have completed more than six semesters, or nine quarters of college study, and must enroll at least half time.

Cal Grant B
Cal Grant B provides a living allowance (and sometimes tuition/fee help) for students with very low incomes. No minimum grade point average is required for assistance; however, preference is given to students showing high potential for success. Nearly all Cal Grant B awards are available only to students who have completed less than one semester of full-time or 16 units of part-time study. There are a limited number of special Cal Grant B awards authorized for community college students transferring to four-year colleges. To be eligible for this special award, an applicant may not have completed more than six semesters or nine quarters of college study.

Cal Grant C
Cal Grant C helps vocational school students with tuition and training costs. Training-related costs include special clothing, tools, equipment, books, supplies and transportation. Recipients must be enrolled in a vocational program at a community college, independent college or vocational school, in a program of study from four months to two years in length. This program is intended to provide training in areas of manpower need. In California, these include computer science, electronics, health science, nursing, retailing and agriculture.

Extended Opportunity Programs and Services (EOPS) Grant
This state-funded program offers academically and educationally disadvantaged students “over and above” services in academic counseling, extra tutoring, peer advising and other ongoing support services to assist students in attaining their educational goals. Financial assistance for books and child care are also available for those who qualify.

Law Enforcement Personnel Dependent Scholarships
This grant program provides educational benefits to the dependents of California police and other law enforcement officers (Highway Patrol, county sheriffs and correctional officers) who have been killed or totally disabled in the line of duty. The death or disablement must have been the result of an accident or injury caused by external violence or physical force, incurred in the performance of duty. Grants range from $100 to $1,500 per year with a maximum of $6,000 in a six-year period. Write directly to the Student Aid Commission, 1410 Fifth Street, Sacramento CA, 95814, for application materials.

Aid for American Indians
The Bureau of Indian Affairs provides federal grants to assist in meeting the costs of attending college. In order to qualify, the student must be at least one-fourth Native American, Eskimo or Aleut, must enroll full time, and must show financial need.

Satisfactory Academic Progress Standards

NOTE: These standards are being revised for 2011-12. Please check with the Financial Aid office.

Federal financial aid regulations require that a school establish satisfactory academic progress standards for students applying for, or receiving, financial aid. These regulations require that the financial aid office review all periods of a student’s enrollment history, regardless of whether financial aid was received, to determine if a student is making academic progress toward an educational goal. Student progress is evaluated at the end of the summer, fall and spring semesters by the standards listed below. Special note: All periods of enrollment for all students will be evaluated regardless of whether or not financial aid was received. Although some grades may be excluded by academic renewal, federal regulations require that all grades must be counted for federal satisfactory academic progress standards.

I. Grade Point Average (GPA) Standard
You must maintain a minimum 2.0 cumulative GPA for every semester of AHC enrollment. Courses completed with grades of A, B, C, D, CR, or P will be considered acceptable for satisfactory academic progress. Courses completed with an F are not acceptable for satisfactory academic progress. I, NC, NP or W grades will not be considered for GPA satisfactory academic progress. Even though a D is considered a passing grade, the total cumulative GPA must not fall below 2.0. Students who receive all CR, P or W notations will be considered to have a satisfactory GPA for that semester. CR or P grades are not included in the GPA calculations.

Students enrolled at AHC for more than two years (60 units attempted) must have a minimum cumulative GPA of 2.0 at the end of the second year to continue eligibility for financial aid.

Warning for not meeting the GPA Standard
If you do not meet the GPA standard, you will be placed on GPA Warning for one semester. Your academic progress status will be displayed on the myHancock portal under your Financial Aid tab.
Financial aid funding will be continued during the warning semester. If you do not meet the GPA standard again while on warning, your financial aid will be canceled. A student may remove warning status by bringing the cumulative GPA up to a 2.0 GPA the next semester.

Reinstatement
Students canceled due to not meeting the cumulative semester GPA minimum standard of 2.0 will be eligible for reinstatement when they have completed, without financial aid, a cumulative GPA of 2.0 or better. To be reinstated, the student must submit to the financial aid office the Request for Reinstatement form.

II. Unit Completion Standards (Progress Toward Educational Objective Standard)
Students are required to complete at least 70 percent of the cumulative units attempted at AHC. This will be reviewed at the end of every semester.
II. MAXIMUM TIME LENGTH TO ACHIEVE EDUCATIONAL GOAL

A student is allowed to attempt a maximum number of units toward their program of study as indicated below under "Maximum Time Lengths for AHC Programs." All units from AHC and previously attended colleges will apply to a student's maximum units attempted regardless of whether financial aid was received.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL courses required as part of a student educational plan to complete an eligible degree or transfer program are eligible for payment. These courses will not be counted in the total attempted units.

REMEDIAL/SPECIAL INSTRUCTION COURSES

A maximum of 30 remedial/special instruction total units will be eligible for funding.

Maximum Time Lengths for AHC Programs

Associate Degree: The associate degree requires completion of a minimum of 60 units at AHC. Students must complete their goal by the time they have attempted 90 units. All units from other colleges will be counted in units toward the degree.

Certificate: AHC offers certificate programs, each requiring a specific number of units for completion. Students enrolled in certificate programs must complete their goals by the time they have attempted 150 percent of the number of units required for their program. A student must be in a federally recognized certificate program that is at least 16 units to be eligible for financial aid funding. For example, a student in a 60-unit certificate program must complete that goal by the time the student has attempted 90 units. The maximum units attempted for a certificate goal requiring more than 60 units may not exceed 90 units. Units from other colleges accepted by AHC will be counted in units toward the degree.

Transfer four-year degree programs: A student planning to transfer to a four-year college may be enrolled in a transfer program which requires a minimum of 60 units of college-level work in order to transfer to that college. The AHC articulation agreements with CSU, UC and a very limited number of private colleges may be used to determine if the student is in an eligible transfer program. Transfer programs require completion of a minimum of 60 transferable units at AHC. Students must complete their transfer goal by the time they have attempted 90 units. Units from other colleges accepted by the college will be counted in this evaluation.

IV. APPEALS FOR NOT MEETING SATISFACTORY ACADEMIC STANDARDS

A student canceled for not meeting satisfactory academic standards may appeal based upon the following documented extenuating circumstances that directly affected their academic performance:

- Death of an immediate family member
- Serious medical problem affecting the student or dependent child
- Family emergency directly affecting the student
- Other documented extenuating circumstances

A Satisfactory Academic Progress Appeal Form may be obtained from the Financial Aid Office. The student is responsible for presenting sufficient information and documentation to substantiate the existence of extenuating circumstances. The Financial Aid Appeals Committee will review the appeal. Written notification will be mailed once a decision is reached. The committee makes the final and binding decision.

Financial Aid Repayment and Refunds

Students who are eligible for federal Title IV financial aid such as Federal Pell Grant or FSEOG may be required to repay all or a portion of those funds if the student withdraws from all courses during a semester. Students who are considering withdrawing from all classes should contact the Financial Aid office regarding further information on the federal repayment and refund policy.

EMPLOYMENT

Federal College Work Study Program (FWS)

This program offers students with financial need the opportunity to earn a portion of their financial aid award and gain valuable work experience. The Career and Technical Education Center (CTEC) will assist eligible students in locating a job either on or off campus. Students are encouraged to find their own placement related to their major. Students will be paid at least the federal minimum wage.

SCHOLARSHIPS

General Scholarship Program

Scholarships are awarded annually by the Allan Hancock College Foundation. A single scholarship application qualifies the student applicant to be considered for various scholarships. Individuals, associations and businesses help strengthen educational opportunities for students by supporting the foundation’s scholarship program. The students and the donors are recognized at the annual scholarship awards ceremony in May.

Applications are available in early fall on the Allan Hancock College Foundation’s website at www.ahcfoundation.org and from the Financial Aid office. The application deadline is mid-November. Awards typically range from $500 to $5,000. Selection is made by members of a scholarship committee, with representation from college faculty, counselors, staff and the foundation. Scholarships are available to students continuing at Allan Hancock College and to...
students transferring from Allan Hancock College to four-year institutions the following fall semester. Notification of awards occurs in May and funds become available in the fall upon meeting funding guideline criteria. Further information is available through the Financial Aid office, (805) 922-6966 ext. 3216.

LOANS

Federal Direct Student Loan Program

The Federal Direct Loan Program enables students to borrow funds from banks and other lending institutions to help meet college costs. Loans are processed by the college and approved by a participating lending agency. A student must first apply for a Federal Pell Grant before eligibility for a Direct Loan can be determined. The Direct Loan repayment date is based on the anticipated completion date (or graduation date). Borrowers are usually entitled to a six-month grace period before repayment begins. The grace period starts on the student's anticipated completion date or when the student leaves school or drops below half-time status.

EXTENDED OPPORTUNITY PROGRAMS AND SERVICES (EOPS)

Extended Opportunity Programs and Services (EOPS) is a state-funded program which offers "over and above" support services and financial assistance to educationally and economically disadvantaged students to help them succeed in college. Students receive assistance with academic counseling, peer advising, book vouchers and help navigating the financial aid process. Eligible students may receive cash grants, extra hours of tutoring, priority registration, limited textbook loans and health fee waiver and are invited to attend workshops and annual social and cultural activities.

To be eligible for EOPS, a student must:

1. Complete a Free Application for Federal Student Aid (FAFSA).
2. Meet EOPS income and educational criteria as determined by Title 5 guidelines.

Applications may be obtained from the Santa Maria campus EOPS office located in building A, the Lompoc Valley Center EOPS office, or from the EOPS website at www.hancockcollege.edu. Bilingual services are provided.

Cooperative Agencies Resources for Education (CARE)

This program is designed to assist single parents receiving public assistance with supportive services and financial assistance to pay for child care and transportation costs. To qualify, a student must be EOPS eligible.

The CARE Center is located in building W, room 24, and provides CARE students with a space to study and complete homework assignments, talk with other CARE students and meet with the CARE specialist. A computer lab is available for student use. Also, an academic counselor is on site several days a week for student convenience. The CARE Center is a child friendly site; therefore CARE parents are encouraged to bring their children with them when they visit the CARE center. For more information you may reach us at (805) 922-6966 ext. 3623.

CALWORKs SERVICES

The college's CalWORKs program offers supportive services to students currently receiving cash assistance through their county's CalWORKs program. These supportive services are designed to assist students to obtain the educational level they need to transition off of welfare and ultimately achieve long-term self-sufficiency. Available services include: new student orientation class; new student intake and service coordination; career assessment and education planning; short-term classes and programs to develop or enhance job skills; referrals for child care and child care voucher program; work-study opportunities; monitored study labs; tutoring; and a limited textbook lending library. The CalWORKs program is located in building N-Annex, room 101, (805) 922-6966 ext. 3870, or at the Lompoc Valley Center, room 2-113, ext. 5247.

WORKFORCE RESOURCE CENTER

Allan Hancock College offers at the Workforce Resource Center a variety of credit and non-credit classes which are designed to increase job skills. The center is located at 1410 South Broadway and houses multiple community agencies that provide assessment of client needs, career and job search information and links to employment and training opportunities, all at one location. In addition to training, Allan Hancock College provides services in financial aid, registration and work search assistance. Students who need assistance in determining career goals, résumé development and work search assistance can visit the on-site Career Lab, which is an open access lab staffed by trained professionals. The lab provides access to computers, software, Internet resources, periodicals, videos and equipment for distance learning.

CAREER AND TECHNICAL EDUCATION CENTER (CTEC)

The Allan Hancock College Career and Technical Education Center (CTEC) is committed to serving our diverse student population by providing a wide array of services in one convenient location. Students visiting the CTEC can obtain information about available job opportunities both on and off campus, as well as have access to a wealth of resources to help them make informed career decisions. The CTEC offers employment services, workplace skills testing, industry certification exams and a variety of career exploration resources. Assistance to develop effective résumés, pre-employment testing and preparation for an interview is available by appointment. Job seekers are able to conduct job searches around the clock via the CTEC website. Students can expand their self knowledge through the use of career assessments and research of current occupational information.

The CTEC is an official American College Testing (ACT) Service test center, offering occupational and professional certification exams. Job applicants are able to obtain work readiness certification through the ACT WorkKeys® job skill assessment system as well as various work-related skill certifications. Academic counseling for career and technical education (CTE) students is also available in the CTEC. To schedule an appointment with one of the CTE counselors, students should contact the counseling department at (805) 922-6966 ext. 3293. Drop-in counseling appointments are also available. Students interested in drop-in counseling should visit the CTEC reception desk for days/times.
CTEC gives AHC students the opportunity to earn college credit by participating in the cooperative work experience (CWE) program. Interested students should contact the Business Education department at (805) 922-6966 ext. 3239 for CWE course and program specifics. The CTEC staff is available at the Santa Maria campus, building K, room 11, and at the Lompoc Valley Center. For assistance in Santa Maria, call (805) 922-6966 ext. 3374; in Lompoc call (805) 735-3366 ext. 5374. Registration and completion of the online orientation to CTEC services is required.

POLICE DEPARTMENT

It is the mission of the Allan Hancock College Police Department to serve the campus community, safeguard lives and property and maintain an environment in which learning can take place. To fulfill this mission, the police department provides a variety of public safety services for students, faculty and the community. The police department is staffed by state-certified police officers, clerical and dispatch staff, student parking control and security workers, student clerks and volunteers. The police officers have full peace officer status. Police officers patrol the campus and surface streets in marked and unmarked police vehicles, enforcing the laws of the state of California and all ordinances of Allan Hancock College. Police and public safety services include crime prevention, lost and found property control, emergency/disaster management, crime and accident investigation, parking control and security escort services. To contact the Lompoc Valley Center, call (805) 922-6966 ext. 5652 (business hours, evenings or weekends); or ext. 3911 (emergency). To contact the Santa Maria campus, call (805) 922-6966 ext. 3374; in Lompoc call (805) 735-3366 ext. 5374. Registration and completion of the online orientation to CTEC services is required.

TRAFFIC REGULATIONS

The speed limit on the Santa Maria campus and Lompoc Valley Center is 25 miles per hour. The speed limit on the Santa Maria South Campus is 15 miles per hour.

Staff may park in yellow- and white-lined stalls. Students may park in white-lined stalls only.

PARKING REGULATIONS

When classes are in session, parking permits are required for all vehicles, including those displaying disabled placards, parked on the Santa Maria campus, South Campus and at the Lompoc Valley Center between the hours of 8 a.m. and 10 p.m., Monday through Thursday, and 8 a.m. to 4 p.m. on Friday. Students may park in white-lined stalls only.

Permits may be purchased during online registration after the last day of instruction of the previous semester/session or via mail. After registration, parking permits may be purchased on the Santa Maria Campus at the district cashier windows and at the Lompoc Valley Venter administration office.

Registration periods, cashier hours and locations are set by the Admissions & Records and Auxiliary Accounting offices and are subject to change. Refer to the Allan Hancock College website at www.hancockcollege.edu for more information.

One-day permits may be purchased for $2 from one of the vending machines located near the parking lots on the Santa Maria campus, South Campus and at the Lompoc Valley Center. Students may park in white-lined stalls only. Vending machines require exact change: no refunds or change will be given.

Parking regulation information is also available through the Allan Hancock College Police Department website or office.

CAMPUS CHILDREN'S CENTER

Buildings Z and J on the Santa Maria campus house the Children’s Center and the Early Childhood Studies program, which provides quality care for infants and preschoolers between three months and five years of age. The center serves as the lab school for Early Childhood Studies which provides a multicultural, anti-bias inclusion approach where children have the opportunity to experience differences in gender, race/ethnicity, abilities, learning styles and individual needs.
further information, contact the center director at (805) 922-6966 ext. 3501 or stop by building J, room 20 for more information. Please do not contact the center classrooms directly.

**LIBRARY/ACADEMIC RESOURCE CENTER**

Building L on the Santa Maria Campus houses the Library (L-North) and the Academic Resource Center (ARC) (L-South). On the first floor of the ARC are the Ann Foxworthy Gallery, Tutorial Center, Writing Center and Open Access Computer Lab. On the second floor are faculty offices, classroom L-203, and Multimedia Services, including the Teacher Learning Center.

The Santa Maria library and the Lompoc Valley Center Jacoby Library include a collection of more than 70,000 books, AV materials, journals and magazines. Online resources include the library catalog and electronic versions of books, journals, magazines, resource guides and reference works. The libraries also have wireless and Internet access for research. Students may request materials from either library to be delivered free to any college site. For more information, call (805) 922-6966, ext. 3224 for Santa Maria or ext. 5223 for Lompoc. The LVC Jacoby Library also houses Tutorial Services and the Open Access Computer Lab.

The Open Access Computer Labs (OACL) provide computer access to registered AHC students who present a current student ID card. Students may use the Internet for research and word processing, spreadsheet, database management and presentation software, as well as programs required in specific classes. For more information, call (805) 922-6966 ext. 3751 for Santa Maria or ext. 5223 for Lompoc.

The Tutorial Centers provide free peer tutoring for many of the courses offered by the college. Tutoring can be one-time only or ongoing throughout the semester, and online tutoring is available. VAFB students can receive assistance at the Lompoc Valley Center. Employment opportunities are available for qualified students who wish to serve as peer tutors. For more information, call (805) 922-6966 ext. 3260 for Santa Maria or ext. 5223 for Lompoc.

In the Writing Center, students enrolled in an English or ESL course with a required lab component or in ENGL 306 (the Writing Lab course) receive help with writing and reading. Writing Center faculty and staff offer one-on-one assistance in writing and reading in any discipline. Writing Center students also have access to computers for researching and word processing. For more information, call (805) 922-6966 ext. 3501.

**DISTANCE LEARNING**

Blackboard is the courseware used by instructors for online distance learning. To enroll in an online distance learning course, students must have access to the Internet and an email account. Students must complete their own work and not work with or through other parties, except in the case of students with disabilities. Students are welcome to use the Open Access Computer Lab at either the Lompoc or Santa Maria campuses for Blackboard access, provided they have a current student ID card.

Allan Hancock College complies with the TEACH Act, a federal copyright law. Some materials used by college faculty in distance learning courses are subject to copyright restrictions. Students may not download and retain or redistribute these materials. For additional information, please contact your online instructors.

Personal security is as important for online students as it is for students who take classes on campus. Allan Hancock College does not restrict enrollment, and by law must admit all qualified students. Students should not share personal information, including phone numbers or addresses, with other online students they do not know. Additional advice about maintaining personal security in an online class can be provided by online instructors.

For more information on distance learning at Allan Hancock College, please call (805) 922-6966 ext. 3320, or visit the distance learning link at: [www.hancockcollege.edu/DistanceLearners/](http://www.hancockcollege.edu/DistanceLearners/)

**COMPUTER RESOURCES CENTER**

The Computer Resources Center, located in building K on the Santa Maria campus, provides PC computers for use by students and faculty in the instructional processes of the curriculum. Class orientations and class visits can be arranged. Individual use of the computers and instructional software is supported by faculty and staff who will assist with the use of this technology in the learning process.

**LEARNING ASSISTANCE PROGRAM (LAP) - (DSPS- Disabled Student Programs and Services)**

The Learning Assistance Program (LAP) provides assistance to students with permanent and temporary disabilities who have special needs related to campus life and the completion of a college degree or certificate program. Through a variety of services, students with verified disabilities receive assistance in achieving their individual educational and vocational goals. Students with disabilities who are eligible to attend a community college may voluntarily use these services, thereby providing them with equal educational access in compliance with federal and state laws, including Section 504 of the Rehabilitation Act, the Americans With Disabilities Act, and Title 5 of the California Education Code.

The Learning Assistance Program provides individualized support services for students with learning, psychological, physical, speech, communication and other disabilities as prescribed by the learning assistance program specialists and counselors. The LAP operates a high technology computer center that provides students with disabilities an opportunity to train on adaptive hardware and software.

Students who have need for alternate media such as Braille, large print or electronic text must contact the Learning Assistance Program to complete the process for requesting such materials. In some instances, satisfying a request by a student to receive instructional materials in an alternate media may require the college to obtain electronic text from the publisher or manufacturer of the instructional materials pursuant to California Education Code Section 67302. In such cases, a completed alternate media request form and the necessary documentation must accompany the accommodation request. Requests for materials in alternate format will be considered on a case-by-case basis. Students
requesting materials in electronic text must own a physical copy of the textbook or course materials.

Students with learning disabilities who may experience specific difficulties with reading, oral or written expression, comprehension and/or arithmetic computations receive individual testing, diagnosis, instruction and support services. To inquire or receive a free brochure, call (805) 922-6966 ext. 3274 or (805) 735-3366 ext. 5274 (voice) or (805) 928-7834 (TTY) or (866) 327-6218 (VP), or (805) 266-7874 (VP).

Accommodating the Academic Needs of Students with Disabilities

The fundamental principles of nondiscrimination and accommodation in academic programs are set forth in Section 504 of the Rehabilitation Act of 1973 and the Americans With Disabilities Act of 1990 (ADA). Section 504 of the Rehabilitation Act of 1973 mandates that academic adjustments be made to individuals with physical, mental or learning disabilities, while the Americans With Disabilities Act mandates that persons with disabilities shall have full access to services and programs available to the general public.

All instructors must give due consideration to adults who are disabled and have documentation of the disability. Reasonable accommodations are made to compensate for the disabling condition. Such accommodations may include taped textbooks, alternative testing arrangements, course waivers, course substitutions and/or modified assignments. Accommodations are determined on a case-by-case basis.

Students with additional questions regarding Section 504 or ADA and reasonable accommodation issues may contact the Learning Assistance Program, building K-Annex, or call (805) 922-6966 ext. 3274.

Reasonable Accommodations

In compliance with state and federal requirements, it is the policy of Allan Hancock College to provide reasonable accommodations for students with disabilities. Reasonable accommodations are those services that allow an individual with a verified disability to compensate for an impairment which limits one or more major life activities. Reasonable accommodations include, but are not limited to, course waivers, extension of time for tests, sign language interpreter services, notetaker services, specialized tutoring, substitution of specific courses required for the completion of degree requirements, adaptation of the manner in which specific courses are conducted or other services as specified in Title 5, Section 56026.

Allan Hancock College cannot grant a substitution that is inconsistent with Title 5 regulations, nor can it ensure that a substitution granted by the college will be accepted by another institution.

A student with a verified disability shall follow the reasonable accommodations procedures set forth by the district.

Procedure to Request Reasonable Accommodations

A student with a verifiable disability may request academic adjustments/reasonable accommodations including, but not limited to, extension of time for tests, alternative environments for testing and alternative methods of course delivery.

Step 1 The student shall meet with the instructor, present verification of a disability and request reasonable accommodations, or an LAP staff member, acting on behalf of the student, shall meet with the instructor and request reasonable accommodations for the student. If reasonable accommodations are satisfactorily provided for the student, the request process is completed.

Step 2 If the instructor refuses to provide reasonable accommodations, the student shall inform the LAP director or his/her designee, in writing, of the instructor's decision. Within five (5) working days or as soon as practical after being notified, the LAP director or designee shall meet with the instructor to try to resolve the matter. If reasonable accommodations are provided, the reasonable accommodation request process is completed.

Step 3 If the LAP director or designee is not able to resolve the matter, he/she will, within five (5) working days or as soon as practical after the meeting with the instructor, submit to the administrator of the area a written request for a resolution. The written request for a resolution shall contain pertinent information such as the student's name, nature of the request, an analysis of the situation, reasons given for refusal to provide the accommodation and names of all individuals who may have relevant information that has bearing on the request. In accordance with Title 5, Section 56027, the 504 coordinator may render an interim decision pending final resolution.

Step 4 Within five (5) working days, or as soon as practical from the date of notification, the administrator of the area will convene a meeting with the department head, LAP director and/or appropriate LAP specialist, instructor, appropriate staff member(s) and the student to try to resolve the disagreement. Within three (3) working days after this meeting, or as soon as practical, the administrator of the area shall submit written notification of the outcome of the meeting to the vice president, student services; the vice president, academic affairs; the LAP director; the faculty member; the department chairperson and the student. If reasonable accommodations are provided, the process is completed.

If appropriate, the vice president, student services, or the vice president, academic affairs, may request review of the matter with the President's Cabinet to try to seek resolution.

Course Substitution or Waiver

Allan Hancock College recognizes that a disability may preclude a student from completing AA or AS degree or program certificate course requirements in the same manner expected of non-disabled students. The district also recognizes the need to accommodate students without compromising a disabled student's course of study or degree, and without compromising the integrity of the college's programs.

Allan Hancock College intends for all of its graduates to master the competencies required by Title 5 and to complete the courses required for an AA or AS degree or a program certificate. The district recognizes that most disabilities which preclude a student from completing a course can be overcome by altering the method of course delivery and providing a combination of appropriate accommodations,
such as tutorial assistance, auxiliary aids, test accommodations or other reasonable accommodations.

For some disabled students, such accommodations will not be sufficient to enable them to complete a specific course of study. For these students, a course substitution or waiver will be considered. If a student with a verified disability has attempted to complete the course and has demonstrated that receiving extra help with a required course or altering the means of delivery of that course is insufficient to enable him/her to complete the course, or if the student can show that his/her disability is of such magnitude that any attempt at completing the course would be futile, the student may request a course substitution or waiver using the following procedure:

**Step 1** The student will submit a completed Course Substitution/Waiver Petition form to the chairperson of the appropriate department.

**Step 2** The chairperson of the department will review the petition and determine if a course substitution or waiver of program requirement(s) is appropriate and approve or disapprove the petition.

**Step 3** If the student is not satisfied with the decision of the department chairperson and wishes to pursue the matter further, the student will submit the petition to the Course Substitution/Waiver Committee (CSWC). This committee is composed of the vice president, student services (who chairs the committee), two faculty members appointed by the Academic Senate and one student appointed by the ASBG. The CSWC will hold a hearing to review the petition within 15 working days of receiving the student's petition. If additional time is needed by the CSWC or the student, the superintendent/president may grant an extension of time beyond the 15-day limit. The student and appropriate department representative(s) shall attend the hearing. The committee may request the attendance of resource persons, if needed.

**Step 4** This committee will review the student's petition and make a recommendation to substitute a course for a required course only if the committee determines that the content of the required course can be reasonably met with another course (substitution) and that the student has no chance of successfully completing the required course even with all the accommodations the college can offer. A waiver will only be considered when the student has no chance of successfully completing the required courses and there are no viable alternatives as determined by the CSWC.

**Step 5** Within five working days, or as soon as practical after the hearing, the chairperson of the CSWC will submit to the superintendent/president the CSWC’s recommendations based on its findings. A copy of the recommendations will be forwarded to the student and the department chairperson.

**Step 6** Within 10 working days, or as soon as practical after receiving the written recommendation(s) of the CSWC, the superintendent/president will issue a decision.

**Student Grievance Rights**

If the issue is not resolved to the satisfaction of the student, the student has a right to file a formal complaint concerning any allegation of failure to comply with the laws, regulations and procedures as set forth in Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 1974), Title 5 and the Americans With Disabilities Act of 1990. Complaints shall be processed through the existing college formal discrimination complaint procedures Board Policy 3010, Staff Diversity/Affirmative Action Policy. For ADA complaints, contact the ADA/504 Coordinator, at (805) 922-6966 ext. 3472.

**VETERANS AFFAIRS**

The Veterans Affairs office acts as liaison to the Veterans Administration and assists veterans and their dependents in reaching their educational goals. Below are the current programs available to eligible veterans, service persons and dependents seeking assistance for education. Active duty personnel are reimbursed only for actual tuition and fees.

**New G.I. Bill All Volunteer Force Education Assistance Program, "Montgomery Bill" (Chapter 30)**

To be eligible, students must have begun service July 1, 1985, or after, served two or three years of continuous active duty, have a high school diploma or equivalent, contributed $100 per month for the first 12 months of service and have an honorable separation.

**VA Vocational Rehabilitation Program (Chapter 31)**

To be eligible, a veteran must have a 20 percent or more service-connected disability.

**Veterans Educational Assistance Program (VEAP) (Chapter 32)**


**Post-9/11 G.I. Bill (Chapter 33)**

To be eligible, a student must have served at least 90 aggregate days on active duty after Sept. 10, 2001, and be still on active duty, honorably discharged, retired or released from active duty for further service in a reserve component. A student may also be eligible if he/she was honorably discharged from active duty for a service-connected disability and served 30 continuous days after Sept. 10, 2001.

**Dependents G.I. Bill (Chapter 35)**

To be eligible, a student must be the child or spouse of a veteran who died while on active duty or who has a service-connected disability rated at 100 percent total and permanent.

**Disabled Veterans' Dependents College Fee Waiver**

Students may qualify to receive a waiver of state college tuition and registration fees administered by the California Department of Veterans Affairs (CDVA):

1. The spouse, child or unremarried widow of a veteran who is totally service-connected disabled (100 percent) or died of a service-related death may qualify. The veteran must have served during a qualifying war period and be honorably discharged. This program does not have an income limit. The student may also receive federal education benefits (Chapter 35) concurrently.
2. The child of a veteran who has a service-connected disability (zero percent or greater) or died of a service-related death may also qualify for a waiver of fees. Students are required to meet the annual income limit which includes the student's reportable income and the value of support provided by the parents, which cannot exceed $7,000 annually.

3. Any dependent, or surviving spouse who has not remarried, of any member of the California National Guard, who in the line of duty, and while in the active service of the state, was killed, died of a disability resulting from an event that occurred while in the active service of the state, or is permanently disabled as a result of an event that occurred while in the active service of the state. "Active service of the state," for the purposes of this subdivision, means a member of the California National Guard activated pursuant to Section 146 of the Military and Veterans Code.

Selected Reserve Education Assistance Program (Chapter 1606)

To be eligible, a reservist must have enlisted or re-enlisted for six or more years in the Selected Reserves after July 1, 1985, have a GED or high school diploma, and have completed the IADT and 180 days of service in the reserves.

Initial applicants must provide county-recorded copies of all DD 214s showing the character of separation. Chapter 30 applicants who have old G.I. Bill eligibility must also provide county-recorded documents of marriage and birth certificates for all dependent children. Applicants should allow at least two months for the VA to process an initial claim and are advised to be prepared for financial emergencies.

Academic Requirements

All VA recipients are required to maintain satisfactory progress toward their educational objective and a minimum grade point average of 2.0 (C) for each period of enrollment. A separate Veterans’ Bulletin outlining standards of progress and attendance is available to all veterans. It is essential that all recipients are thoroughly familiar with these federally mandated standards.

Evaluation is required to allow credit for prior training, including college, military and correspondence school. Air Force military evaluations may be obtained free from the Community College of the Air Force and from the Army for those who have entered service since Oct. 1, 1981.

All students must have an approved course requirement list prepared by a counselor or a statement of course requirement from a four-year institution no later than the end of the first period of enrollment. Entering students who have earned 24 or more units will not be certified for VA assistance until the course requirement list is prepared. All transcripts and military evaluations must be on file prior to this counseling. VA policy prohibits payment for any course not required for graduation in the student's stated objective.

Further information and applications for benefits may be obtained from the Veterans Affairs office, Student Services, building A, Santa Maria campus; the Lompoc Valley and Vandenberg AFB centers; or at the County Veterans Service Office at 511 E. Lakeside Parkway, Rm. 47, Santa Maria, or the Veterans Memorial Building, 108 E. Locust St., Lompoc.

STUDENT GOVERNMENT AND ACTIVITIES

Student government at Allan Hancock College is a vital instrument of the student body, providing a means by which a responsible student body may manage its own affairs, and affords an avenue of communication for student opinions and recommendations. Participation offers the student an opportunity to enrich his or her college experience by participating actively in campus activities and to develop qualities of leadership and cooperation while working with students, faculty and administration in a variety of situations.

The concerns of the student government are many and they encompass a wide variety of services which touch every student. There are student representatives on a number of campus-wide governance and policy making committees.

The Student Government is the executive arm of the Associated Student Body. Members of the Associated Student Body Government (ASBG) strive to increase communication between the administration, the faculty and the students. The Student Government provides an organized channel for support of major campus events. ASBG elections are held in the spring, but petitions may be submitted in the fall for unfilled offices and committee appointments. Student Government meetings are scheduled throughout the semester and are open to the public. The current schedule for these meetings can be found on the college website under ASBG.

Clubs and organizations are an integral part of campus life at Allan Hancock College. Active clubs on campus include: CE’ENI; Cheer Squad; The Dream Club; Intervarsity; Society for the Advancement of Chicanos and Native Americans in Science (SACNAS); Dental Assistants of the Future; Alpha Gamma Sigma-Aquarius (AGS); Associated Degree of Nursing Program (ADNP); Viticulture/Enology; Mathematics, Engineering, Science Achievement Club (MESA); Taste Makers; American Institute of Architecture Students (AIAS); Auto Body Club; and the Asian Pacific International Club; Sun Lotus Group; Follow Po-Lo; AHC Pep Band and Drum Line; Latter Day Saints Student Association (LDSSA); Future Medical Assistants of AHC; Media Arts Club; and Students Pursuing Athletic Training (SPAT).

SEMESTER ABROAD

The importance of international education in a global society is well recognized. Students seeking to add that perspective to their education may enroll in classes through the Central Coast Study Abroad Consortium. Credits earned may be applied toward an associate and baccalaureate degree.

Programs have included study opportunities in Spain, France, Africa, the Czech Republic, Germany, Chile and Argentina, among others. For more information, contact the dean, academic affairs, at (805) 922-6966 ext. 3261.

ATHLETICS

Allan Hancock College is a member of the Western State Conference and competes in the California Community Colleges System in athletics under the direction of the Commission on Athletics. Allan Hancock College Football competes within the Southern California Football Association, the National Northern Division.

The college provides a wide range of intercollegiate sports for both men and women. Men's sports include baseball,
basketball, cross country, football, golf, soccer, and track and field. Women’s sports include basketball, cross country, soccer, softball, tennis, track and field and volleyball.

To be eligible for intercollegiate sports, athletes must be enrolled in 12 units of class work. At least nine of the 12 units shall be attempted in courses counting toward the associate degree, remediation, transfer and/or certification as defined by the college catalog, and are consistent with the student athlete’s educational plan. To remain eligible in subsequent semesters, students must satisfactorily complete 24 units with a 2.0 grade point average between seasons of competition. Of the 24 semester units, 18 units shall be consistent with the criteria listed above. Questions on athletic eligibility should be referred to the athletic eligibility technician in the Admissions and Records office or to the associate dean, health, physical education and athletics.

Equity in Athletics Disclosure Act

Under the Equity in Athletics Disclosure Act of 1994, Section 360B of Pub.L. 103-382, Allan Hancock College must provide specific information about its athletic programs for inspection by students, prospective students and the public by October 30 of each year for the previous reporting year. Such information is available online at http://ope.ed.gov/athletics/

In compliance with State and Federal Title IX laws pertaining to equitable opportunities for men and woman, respective community colleges, governed under the commission on Athletics/California Community College Athletic Association, must complete and report the three-part test as indicated on the Form R-4. The three part test includes: participation proportionate to full-time undergraduate enrollment, continued program expansion, or fully and effectively accommodating the underrepresented sex.

MESA PROGRAM

The Mathematics, Engineering, Science Achievement (MESA) Program grant is funded by the California Community College Chancellor’s Office. MESA provides academic support to financially and educationally disadvantaged students majoring in math-based disciplines who plan to transfer to four-year universities. MESA services include tutoring, academic excellence workshops, a student study center, industry and university field trips, scholarships, internships, career and leadership development activities and transfer counseling. Students who meet the criteria established by the state MESA grant are eligible for the program. To apply, visit the MESA center located in building W, room 21, on the Santa Maria campus. For more information, call MESA at (805) 922-6966 ext. 3446.

TITLE V El Colegio de Aprendizaje: The Learning College

In October 2007, the U.S. Department of Education awarded Allan Hancock College a program grant. This five-year grant is reserved for Hispanic-serving institutions and is designed to assist the college in becoming a stronger, more effective learner-centered institution. The grant provides resources to enhance students’ educational experiences, help students develop competencies in the college’s seven Institutional Learning Outcomes (ILOs) and assess institutional effectiveness. For more information, call (805) 922-6966 ext. 3878.

CAL-SOAP PROGRAM

The Central Coast California Student Opportunity and Access Program (Cal-SOAP), administered by the California Student Aid Commission, is designed to increase post-secondary educational access to low-income and first generation elementary and secondary school students. Services provided by the project include academic tutoring advising on academic preparation, admissions requirements, financial aid and scholarship information. The Central Coast Cal-SOAP Consortium is composed of two community colleges and two university partners and provides services in five K-12 school districts and two community-based organizations. To contact CAL-SOAP, please call (805) 922-6966 ext. 3710.

COLLEGE ACHIEVEMENT NOW PROGRAM

The College Achievement Now (CAN) program serves students who are first generation, low income, and/or have a special need. The program is federally funded by the TRIO Student Support Services Program from the U.S. Department of Education (P042A100760). CAN serves a dual purpose: It is designed to 1) increase college retention and graduation rates for underrepresented students; and 2) increase transfer rates to four-year colleges and universities. Participation in CAN provides students with priority registration; access to counselors to assist in career, academic, and transfer related information; creation of Student Education Plans; attendance at colleges and universities; assistance with financial aid, scholarships, and job opportunities; and access to computers and printers. To contact CAN, please call (805) 922-6966 ext. 3434.
Culinary arts offers several certificate programs and a degree in Culinology®.
NONDISCRIMINATION STATEMENT

The Board of Trustees of the Allan Hancock Joint Community College District recognizes that diversity in the academic environment fosters cultural awareness, mutual understanding and respect, harmony and creativity while providing positive images for all students. The district is committed to the active promotion of campus diversity, including recruitment of and opportunities for qualified members of under-represented/protected groups, as well as the provision of a work and learning environment conducive to open discussion and free of intimidation, harassment and unlawful discrimination. The board commits the district to vigorous staff diversity/equal employment opportunity for qualified persons in all aspects of its employment program including selection, assignment, promotion and transfer, and with respect to all necessary classifications. The board also assures that all employees and applicants for employment will enjoy equal opportunity regardless of race, color, ancestry, religion, gender, national origin, age, physical/mental disability, medical condition, status as a Vietnam-era veteran, marital status or sexual orientation.

Discrimination on the basis of gender, including all forms of sexual harassment, is strictly forbidden by Title VII of the Civil Rights Act, Title IX, and the college policy on sexual harassment. All student discrimination complaints should be addressed to the vice president of student services, Allan Hancock College, 800 S. College Dr., Santa Maria CA, 93454-6399, (805) 922-6966 ext. 3267. All employee discrimination complaints should be addressed to the director of human resources, Allan Hancock College, 800 S. College Dr., Santa Maria CA, 93454-6399, (805) 922-6966 ext. 3338. The district is also committed to equal access and reasonable accommodations for students with disabilities. The coordinator for Americans with Disabilities Act (ADA) for students is the director, Learning Assistance Program, Allan Hancock College, 800 S. College Dr., Santa Maria CA, 93454-6399, (805) 922-6966 ext. 3380. All other ADA discrimination complaints should be addressed to the director, human resources, Allan Hancock College, 800 S. College Dr., Santa Maria CA, 93454-6399.

La Junta Directiva del Allan Hancock Joint Community College District reconoce que la diversidad en el ambiente académico fomenta la conciencia cultural, el entendimiento y respeto mutuo, la armonía y la creatividad, lo que a su vez aporta imágenes positivas para todos los estudiantes. El distrito se compromete a promover activamente en este colegio la diversidad cultural, incluyendo el reclutamiento y el empleo de personas calificadas pertenecientes a los grupos menos representados y protegidos, y se compromete también a cumplir con los reglamentos para ofrecer un lugar apropiado para laborar y de aprendizaje que contribuya a una discusión abierta, sin ninguna clase de intimidación, acoso o discriminación. La Junta Directiva compromete al distrito a contar con diversidad étnica en su personal y a ofrecer las mismas oportunidades de empleo para personas calificadas en todos los aspectos de su programa laboral, incluyendo la selección, asignación, promoción y el traslado, tomando en cuenta todas las clasificaciones necesarias. La Junta Directiva también se compromete a asegurarse que todos sus empleados y solicitantes de empleo, cuenten con las mismas oportunidades de empleo sin importar su raza, color, descendencia, religión, origen, género, estado civil, edad, discapacidades físicas o mentales, condición médica, o por ser veteran de la guerra de Vietnam, estado civil, u orientación sexual.

La discriminación por motivos de género, incluyendo todo tipo de hostigamiento sexual está estrictamente prohibida por la Ley VII del Acta de Derechos Civiles, capítulo IX, y por las reglas del colegio sobre el hostigamiento sexual. Todas las quejas de discriminación emitidas por los estudiantes deberán ser enviadas al vicepresidente de servicios estudiantes, Allan Hancock College, 800 S. College Dr., Santa Maria CA, 93454-6399, teléfono (805) 922-6966 ext. 3267. Todas las quejas de discriminación por parte del personal del colegio deberán ser enviadas al director de recursos humanos, Allan Hancock College, 800 S. College Dr., Santa Maria CA, 93454-6399, teléfono (805) 922-6966 ext. 3338. El distrito también se compromete a brindar acceso equitativo, así como facilidades razonables a todos aquellos estudiantes discapacitados. El coordinador estudiantil del Acta de Americanos con Discapacidades (ADA por sus siglas en inglés) es el director de programa de asistencia para el aprendizaje, Allan Hancock College, 800 S. College Dr., Santa Maria CA, 93454-6399, teléfono (805) 922-6966 ext. 3380. Todas las quejas de discriminación en contra del ADA deben ser enviadas al director de recursos humanos, Allan Hancock College, 800 S. College Dr., Santa Maria CA, 93454-6399.

DISCRIMINATION COMPLAINTS

The district's Equal Employment Opportunity (EEO) Policy includes complaint procedures for students and staff who experience discrimination on the basis of race, color, religion, gender, marital status, national origin, ethnic identification, age, disability, pregnancy or status as a Vietnam-era veteran. In addition, the district’s Sexual Harassment Policy forbids intimidation or harassment of a sexual nature and provides a complaint procedure for students and staff who experience sexual harassment.

Discrimination Complaint Procedure

An employee, job applicant or student who feels he/she has been or is being subjected to employment-related discriminatory treatment, including sexual harassment, or who has learned of such unlawful discrimination in his or her official capacity, should immediately contact the staff diversity/equal employment opportunity officer of the college.

If the complaint is employment discrimination, the staff diversity/equal employment opportunity officer will make every attempt to meet with the complainant within ten (10) working days of receipt of a written complaint. The staff diversity/equal employment opportunity officer will try and resolve the complaint informally within 30 days of the date the written complaint was filed.

If the complaint is a sexual harassment complaint, the staff diversity/equal employment opportunity officer will try and resolve the complaint within ten (10) days of receipt of a written complaint.

If the staff diversity/equal employment opportunity officer is not able to resolve the complaint informally and the complainant wishes to pursue the matter further, he/she may file a formal complaint with the district.

The district must make an administrative determination within 90 days of the date the formal complaint was filed.

If the complainant is not satisfied with the determination and wishes to pursue the matter further, he/she may file an appeal with the Board of Trustees within 15 days of the date...
of the administrative determination. The board will issue its decision within 45 days of receiving the complaint.

For complaints not involving employment discrimination, if the complainant is not satisfied with the decision of the Board of Trustees, he/she may file a complaint with the Office of the State Chancellor for Community Colleges within 30 days of the determination of the board.

**STUDENT COMPLAINTS OTHER THAN DISCRIMINATION**

**Grounds for Student Complaints**

1. any act or threat of intimidation, harassment or physical aggression (other than sexual harassment)
2. arbitrary imposition of sanctions without due process
3. violation of student rights which are described in board policies or the college catalog

**Informal Procedure for Complaints Other Than Discrimination**

When a student feels that he/she has just cause for a complaint, other than academic or discrimination, the following preliminary steps must be taken in the sequence presented within ninety (90) days of the alleged incident:

1. Meet with the person(s) involved in the complaint to seek a solution. The Associated Student Body's (ASB) commissioner of student rights may accompany the student and may assist both parties to achieve a mutually acceptable resolution of the complaint.
2. Confer with the chairperson of the appropriate department in cases involving faculty or staff. The ASB commissioner of student rights may attend.
3. Confer with the vice president, student services, or designee. He/she will call an informal conference with the parties involved in the complaint. In the case of a complaint against the vice president, student services, confer with the district affirmative action officer. In either case, the ASB commissioner of student rights may attend.

**Formal Procedure for Student Complaints Other Than Discrimination**

1. If the student feels that the complaint has not been satisfactorily resolved by the informal procedures, he/she shall submit to the vice president, student services, or designee a formal complaint form which is obtainable in the Office of Student Services. This shall be done within five (5) working days after the informal conference with the vice president, student services, or designee.
2. The vice president, student services, or designee shall, within five (5) working days after receiving the completed complaint form, convene the Student Complaint Committee which will conduct a formal hearing at the earliest possible date.
3. The Student Complaint Committee shall conduct a formal hearing. The vice president, student services, or designee, upon receiving the findings of facts and recommendations of the Student Complaint Committee shall, within five (5) working days, render a decision, and transmit it in writing to the respondent, the Student Complaint Committee, the superintendent/president of the college, and the other party concerned in the matter. The vice president, student services, or designee may review the proceedings of the committee, conduct such additional investigation as he/she may deem appropriate and take one of the following actions:
   - Dismiss the complaint
   - Alter the recommended sanctions
   - Concur with the committee's recommendations
4. If the complainant or respondent is not satisfied with the decision of the vice president, student services, and wishes to appeal the decision, the complainant or the respondent may write an appeal of the decision made by the vice president, student services, or designee to the superintendent/president of the college within five (5) working days after receipt of the written decision. Upon receipt of the appeal, the superintendent/president shall review the proceedings, conduct such investigation as he/she deems appropriate and take one of the following actions:
   - Dismiss the complaint
   - Alter the recommended sanctions
   - Concur with the decision of the vice president, student services, or designee
   - Concur with the recommendations of the committee

If the final action in the complaint proceedings results in the dismissal of all charges, all records of the complaint shall be removed from the student's file within thirty (30) days of such final action. Such records will then be destroyed.

**Procedure for Grade Review**

Academic evaluation is the purview of the class instructor. Students who do not attend class regularly may be dropped by the class instructor. During the first week of class, regular attendance must be defined in each course syllabus and given out to students. Students may not be dropped due to poor performance alone. Students who have complaints regarding the evaluation of their academic performance should follow this sequence:

The State of California Education Code (Section 76224) states that "...determination of the student's grade by the instructor in the absence of mistake, fraud, bad faith or incompetence, shall be final." If a student feels she or he has been assigned a grade based upon mistake, fraud, bad faith or incompetency, not more than 120 days after the last day of the semester or term for which the grade was awarded, the student could initiate step one of the grade review procedure (certain exceptions can apply if extenuating circumstances are documented and approved by the Grade Review Committee (GRC).)
Step 1 Meet with the instructor to explain the situation and see if the problem can be resolved.

Step 2 If step one does not resolve the issue and the student wishes to pursue it further, then the student shall complete the Grade Review Petition Form and arrange a meeting with the department chair of the faculty person who assigned the grade.

Step 3 If step two does not resolve the issue and the student wishes to pursue it further, then the student shall arrange a meeting with the dean of the faculty person who assigned the grade.

Step 4 If step three does not resolve the issue, then the student may request a formal hearing by the GRC. The GRC shall be composed of the vice president, academic affairs, (who shall chair the committee), two faculty members (the president and vice president of the Academic Senate or their designee) and the ASBG president or his/her designee.

The GRC shall hold a hearing within four weeks of receiving a valid request for such from the student, unless the student and/or the faculty member is unavailable due to vacation or other extenuating circumstances. All parties involved will have the right to present oral or written testimony, to have counsel, to have and question witnesses and to hear all testimony. If the principal parties, either the student and/or the faculty member, do not wish to attend all formal hearings, he/she may waive this right by letter.

The findings of the GRC shall be stated in writing to all participants no later than two weeks from the date of the hearing. A copy of such findings will be forwarded to the superintendent/president.

If the faculty member or the student wishes to appeal the decision, the board of trustees will arrange a hearing within two months of the filing of the appeal. The Board of Trustees can review the record through step four, or grant a hearing de novo (full hearing).

Step 5 Within two weeks after the board hearing, the board will issue its finding. The decision of the board is final.

Procedure for Academic Complaints

Academic complaints are grievances that students may present against a faculty member. If a student believes that he/she has just cause for an academic complaint, other than to appeal a grade awarded for a course (grade review), the following steps must be taken no later than 30 calendar days into the next regular semester after the alleged incident(s) occurred. If the faculty member against whom the complaint is filed is not available, the complaint process may proceed to the next level, or by mutual agreement between the student and the dean of the area, the complaint process may be postponed and rescheduled at a time when all parties are available.

Step 1 For academic complaints, other than grade review, students should seek a resolution by meeting with the faculty member(s) involved in the complaint to try to achieve a mutually acceptable resolution of the complaint. The faculty member(s) should meet with the student within ten (10) working days of the student's request for a meeting. If the faculty member(s) does not meet with the student within ten (10) working days of the request for a meeting, the student may proceed to Step 2. If the time limit is not met at any step, the student may proceed to the next step.

Step 2 If the issue is not resolved at Step 1 and the student wishes to pursue the issue further, the student shall arrange a meeting with the chair of the appropriate department or the program coordinator to try to resolve the issue. If the chair of the department or the program coordinator is involved in the complaint or has another conflict of interest, the student shall go directly to Step 3. The chair of the department or the program coordinator should meet with the student within ten (10) working days of the student's request for a meeting. The chair or the program coordinator will attempt to resolve the issue by meeting with the student(s), and if appropriate, the faculty member(s). If appropriate, the chair or the program coordinator may have a joint meeting with the student(s) and the faculty member(s) involved in the complaint.

Step 3 If the issue is not resolved at Step 2 and the student wishes to pursue it further, the student shall meet with the dean of the area to try to resolve the issue. Prior to meeting with the dean of the area, the student shall submit the complaint in writing. The written complaint shall include the date(s) of the alleged incident(s), the name(s) of the faculty member(s) involved, any person(s) who may have knowledge of the incident(s) or situation, and a summary of what occurred from the student's perspective. The student shall also state what he/she desires as an outcome (resolution). The dean of the area shall meet with the student within ten (10) working days of receiving the student's written complaint. If appropriate, the dean of the area will conduct an investigation of the complaint. Prior to meeting with the faculty member(s) involved in the complaint, a copy of the student's written complaint will be forwarded to the faculty member(s). If the dean does not meet with the student within ten (10) working days of receiving the student's written complaint, the student may go directly to Step 4.

Within ten (10) working days after meeting with the student, the dean will forward a written notice of his/her decision/action to the student, the chair of the department or the program coordinator, and the faculty member(s) involved in the complaint.

Step 4 If the issue is not resolved at Step 3 and the student desires to pursue it further, the student shall submit a written appeal to the appropriate vice president. All written material involving the complaint shall be forwarded by the dean of the area to the appropriate vice president immediately after receiving notice that the student has appealed the dean's decision. A copy of the written appeal shall be forwarded to the faculty member. The appropriate vice president shall meet with the student within ten (10) working days after receiving written notification of the appeal. If appropriate, the vice president will conduct an investigation of the complaint. If the appropriate vice president does not meet with the
student within ten (10) session days, the student may go to Step 5.

Within ten (10) working days after meeting with the student, the appropriate vice president will forward a written notice of his/her decision/action to the student, the dean, the chair of the department or the program coordinator, and the faculty member(s) involved in the complaint.

Step 5 If the issue is not resolved at Step 4 and the student wishes to pursue it further, the student shall submit a written appeal to the superintendent/president of the college to try to resolve the issue. A copy of the written appeal shall be forwarded to the faculty member. Within ten (10) working days after receiving the written appeal, the superintendent/president may meet with the student to discuss the issue, or render a decision based upon a review of the written complaint. If appropriate, the superintendent/president will conduct an investigation of the complaint.

If the superintendent/president renders a decision based upon a written record of the incident, he/she will forward written notice of the decision/action to the student, the dean, the chair of the department or the program coordinator, and the faculty member(s) involved in the complaint within ten (10) working days of receiving the student's appeal.

If the superintendent/president meets with the student, he/she will forward a written notice of his/her decision/action to the student, the dean, the chair of the department or the program coordinator, and the faculty member(s) involved in the complaint within ten (10) working days of meeting with the student. The number of calendar days designated for a meeting may be extended if mutually agreed upon by the student and the superintendent/president.

Step 6 If the issue is not resolved at Step 5 and the student wishes to pursue it further, the student shall submit a written appeal to the board of trustees. The written appeal shall contain all written material submitted and received by the student involved in the complaint. Within two calendar months after receiving the appeal, the board of trustees shall review the appeal and issue a decision/action, in writing, to the student, the dean, the chair of the department or the program coordinator, and the faculty member(s) involved in the complaint. In reaching a decision, the board of trustees may render a decision based upon the written record or grant a hearing de nova (full hearing). The decision of the board is final.

If an academic complaint against a faculty member(s) is found to be valid, and it is determined that the violation is severe enough for disciplinary action, the faculty member(s) will be disciplined through the regular disciplinary process.

GUIDELINES FOR STUDENT CONDUCT

These Standards of Student Conduct for violation of rules were established by the Board of Trustees for the Allan Hancock Joint Community College District on Jan. 16, 1979 (Revised 3/2006).

A student enrolling in Allan Hancock College may rightfully expect that the faculty and administrators will maintain an environment in which there is freedom to learn. Therefore, appropriate conditions and opportunities must be provided for all students to pursue their education within a safe and secure environment. As members of the college community, students should be encouraged to develop the capacity for critical judgment; to engage in a sustained and independent search for truth; and to exercise their right to free inquiry and free speech in a responsible, nonviolent manner.

Students shall respect and obey civil and criminal law and shall be subject to legal penalties for violation of laws of the city, county, state and nation in the same manner and to the same extent as any other person. Student conduct at Allan Hancock College must also conform to district and college rules and regulations. The same standards of student conduct apply whether a student is physically present in a campus facility, is engaged in a distance learning course, or is using electronic (e.g. web-based) services of the district. Any behavior that interferes with the instructional, administrative or service functions of the district will be considered to be disruptive and will be subject to disciplinary action. Refer to the "Allan Hancock Joint Community College District Guidelines for Student Conduct, Disciplinary Action and Procedural Fairness," located in the office of the vice president, student services, for the procedural and substantive due process utilized in the adjudication of student disciplinary cases.

Students found in violation of the Standards of Student Conduct, including but not limited to the following, will be subject to disciplinary action.

A. Conduct Related to Individuals and College Functions

1. Disruptive Conduct: An individual shall not engage in disorderly, lewd, obscene, indecent or offensive conduct or any conduct that is reasonably likely to cause a breach of peace, disrupt, or that does disrupt, any college function, process or activity, including teaching, research and administration of public service functions on campus, at college-sponsored events off campus or through the use of college electronic resources not part of assigned college curriculum.

2. Alcohol, Drugs and Drug Paraphernalia: An individual shall not possess, sell, offer to sell, purchase, offer to purchase, use or transfer illegal drugs, drug paraphernalia or alcohol, or be under the influence of alcohol, drugs or medication (except as prescribed by a physician and used in accordance with the prescription), or furnish alcohol to a minor.

{The term "drugs" includes any narcotic, dangerous drug, steroid, vapor releasing toxic substance, marijuana, or controlled substance (imitation or otherwise) as defined by law. The term "medication" means any substance that is available legally by prescription only.}

3. Threats, Assaults, Battery, Abuse and Fighting: An individual shall not verbally or physically threaten bodily harm or engage in any misconduct which results in injury or death to a student or to college personnel or otherwise abuse, assault or fight with any other person on college property or at an off-campus, college-sponsored event.
4. Defamation:
An individual shall not use defamatory words or phrases or distribute defamatory materials. Defamatory words or materials are those that: (1) are false and expose any person or the college to hatred, contempt, ridicule, disgust or an equivalent reaction; or (2) are false and have a tendency to impugn a person's occupation, business or office.

5. Obscenity and Vulgarity:
An individual shall not engage in the expression of obscene, libelous, slanderous or vulgar language or gestures, nor distribute or exhibit such materials by any means including digital. Obscene materials, language or gestures are those that an average person, applying contemporary standards of the college community, would find that, taken as a whole, appeal to prurient interests and lack serious literary, artistic, political or scientific value.

6. Hazing:
An individual shall not engage in any activity involving hazing, intimidation, assault or other activity related to group affiliation that is likely to cause or does cause bodily danger, physical harm, mental harm or personal degradation or humiliation.

7. Endangering the Health and Safety of Others:
An individual shall not engage in conduct that endangers or reasonably could endanger, or that reasonably appears to endanger, the health or safety of students, college employees or other persons.

8. Obstruction:
An individual shall not obstruct the authorized use or enjoyment of college facilities or activities by any other individual. Obstruction includes, but is not limited to: (1) disruption of classes, administrative functions, disciplinary procedures or the use of electronic resources; (2) unauthorized interference with any person's access to or from college facilities or events; (3) interference affecting the normal flow of pedestrian or other traffic; (4) use of facilities that are assigned to another individual or group; (5) use of sound amplifying equipment that unreasonably interferes with the activities of others; and (6) participation in any activity with the intent or reasonably predictable effect of disrupting or otherwise depriving a group or individual of the ability to see, hear or otherwise experience an authorized college function or activity.

9. False Imprisonment:
An individual shall not imprison, detain or exercise unlawful control over the freedom of movement of any person.

10. Harassment and Discrimination:
An individual shall neither harass another person nor engage in any form of discriminatory behavior. Harassment includes written or verbal abuse of a serious nature (either as a result of the severity or repetitive nature of the conduct) that humiliates or intimidates another individual and does not otherwise advance matters of public concern. Harassment also includes stalking or any other conduct that could reasonably be expected to cause fear or apprehension on the part of another individual, including persons submitting complaints, serving as witnesses or members of adjudicating committees. An individual shall not engage in conduct that is directed toward another person if that conduct would cause a reasonable person to fear for the person's safety or the safety of that person's immediate family member or close acquaintance, and that person, in fact, fears for his or her safety or the safety of an immediate family member or close acquaintance. An individual shall not engage in discriminatory conduct on the basis of race, color, ancestry, religion, gender, national origin, age, physical/mental disability, medical condition, status as a Vietnam-era veteran, marital status or sexual orientation.

11. Sexual Harassment:
An individual shall not engage in sexual harassment which consists of any unwelcome sexual advance, request for sexual favors or other written, verbal or physical conduct of a sexual nature when: (1) submission to or rejection of the conduct is made either an explicit or implicit condition for access or decisions relating to any college-related opportunities; (2) the expression or conduct substantially interferes with an individual's work or academic performance or creates an unreasonably intimidating, hostile or offensive work, learning or other college-related environment; or (3) the expression of sexual or social interest in an individual continues after being informed that the interest is unwelcome.

12. Sexual Misconduct:
An individual shall not engage in conduct that constitutes sexual misconduct, whether forcible or non-forcible, including but not limited to rape, sexual assault, public sexual indecency or indecent exposure.

13. Gambling:
An individual shall not engage in card playing for money, bet on sporting events and/or participate in other forms of gambling of any type on campus property or by means of college electronic resources.

14. Smoking:
An individual shall not engage in willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or the district.

B. Conduct Related to Property and Records:

15. Theft, Fraud, Misrepresentation, Robbery and Extortion:
An individual shall not take, use, borrow, steal or receive any property belonging to another without that person's permission, or otherwise obtain any benefit by fraud, identity theft, extortion, robbery, misrepresentation, deception or by expressed or implied threat. An individual shall not make any false oral or written statement to any person or entity with the intent to mislead or deceive.
16. Academic Dishonesty:
An individual shall not engage in any form of academic dishonesty, including but not limited to cheating, fabrication, facilitating academic dishonesty, copyright infringement or plagiarism. An individual shall not use or attempt to use the academic work or research of another person (or agency engaged in the selling of academic materials) and represent that it is his or her own or otherwise engage in dishonest academic work. An individual shall not share his or her knowledge or work with another student during an examination, test, quiz or other academic assignment unless specifically approved in advance by the instructor. An individual shall not bring to an examination any materials or notes not approved by the instructor; nor shall the individual receive, or attempt to receive, any test response from another student during an exam or at any time unless expressly authorized by a faculty member. (Refer to Academic Honesty.)

17. Destruction of Property, Vandalism and Littering:
An individual shall not damage, destroy or deface any college or district property or property belonging to any member of the college community or a campus visitor and shall not litter on college property or at a college-sponsored event.

18. Forgery:
An individual shall not use or attempt to use the identity or signature of another and represent that it is his or her own to obtain any benefit by fraud, misrepresentation or deception.

19. Emergency Alarms and Fire Control Devices:
An individual shall not knowingly activate, use or tamper with any college fire alarm, safety device or other device provided by the college for use in emergencies, unless the individual reasonably believes that an emergency exists that justifies use of the device.

20. Arson:
An individual shall not willfully or maliciously start, attempt to start or promote the continuation of any fire or explosion.

21. Unauthorized Entry and Duplication of Keys:
An individual shall not gain or attempt to gain forceful or unauthorized entry into, or occupation of, college facilities or grounds or designated off-limits areas. An individual shall not possess, reproduce, transfer or sell a key to any college building or facility without receiving express permission to do so from an appropriate college administrator.

22. Unauthorized Access and Tampering:
An individual shall not, without proper authorization, read, remove, copy, counterfeit, misuse, photograph, forge, alter, destroy or tamper with any college documents or records in any format, including digital. An individual is not permitted unauthorized use of electronic resources such as computer equipment (i.e., computer, disk drive, server, printer, scanner or monitor), computer software, database, data network, file, document, record, library material, telephone message, telephone record or telephone equipment, or may otherwise violate college or district policies pertaining to copy-right law, computer software license or computer use. Such prohibited activities are inclusive of, but not limited to, unauthorized entry into a computer, database or file; transfer or copy of a file, data record or software; use of another individual's identification and/or password; use of computers to interfere with the work of another student, faculty member or other college employee; sending or forwarding obscene, vulgar, threatening or abusive messages, files or website links; or otherwise interfering with the normal operation of the college's computer systems and network.

23. Solicitation and Posting of Notices:
An individual shall not solicit or post any materials, pictures or writing on college property without first obtaining appropriate authorization.

24. Commercial Use of Academic Presentation:
An individual shall not, without proper authorization, prepare, give, sell, transfer, distribute or publish, for any commercial purpose, any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten, typewritten or digital class notes, except as permitted by any district policy or administrative procedure.

C. General Conduct

25. Violation of College Policies, Rules or Directives:
An individual shall not violate any college or district policy, administrative procedure, rule or directive inclusive of the terms and conditions of a disciplinary sanction or stipulation, or an "order to appear" issued by an authorized college official, nor shall an individual violate regulations pertaining to student organizations, facilities usage or the authorized time, place and manner of public expression.

26. Defiance of Authority and Untruthfulness:
An individual shall not willfully disobey the directions or reasonable orders of instructors, administrators or other college employees and shall respond to lawful requests for information from these persons in a truthful manner. An individual shall not obstruct or resist any college official, employee, college police officer or other law enforcement officer in the performance of his or her duty. An individual shall not furnish false information, including false identification, or fail to provide information to the college or to any college employee or agent, including campus law enforcement or security officers or other agents acting in good faith.

27. Possession of Weapons or Dangerous Items:
An individual shall not possess or use weapons inclusive of firearms, explosives, fireworks, dangerous chemicals or any other instrument capable of harming any person or property, or that reasonably would create the impression of being able to induce such harm, without express authority from the college president or his or her designated representatives or members of law enforcement agencies.

{Weapons referenced in this standard are inclusive of, but not limited to: any instrument or weapon of the kind commonly known as blackjack, sling shot, fire bomb, Billy club, sand club, sandbag, metal...}
knuckles; any dirk, dagger, firearm (loaded or unloaded) such as a pistol, revolver, rifle, etc; any knife having a fixed blade longer than two and one-half (2 ½) inches; any folding knife or switchblade longer than two inches; any folding knife with a blade that locks into place; any razor with an unguarded blade; a taser or stun gun; any metal pipe or bar used or intended to be used as a club.

28. Attempted Violation:
An individual shall not attempt to engage in any conduct prohibited by these standards. An attempted violation of these standards is punishable in the same manner as a completed violation without regard as to whether the act was or could have been successfully completed.

29. Conspiracy and Encouragement:
An individual shall not conspire, encourage, assist, or incite any other person(s) to engage in any conduct prohibited by these Standards of Student Conduct.

30. Persistent Misconduct:
An individual shall not engage in persistent, serious misconduct where other means of correction, inclusive of directives issued by faculty members or other college officials, have failed to bring about appropriate conduct.

31. Violation of Federal, State or Local Law:
An individual shall not violate any federal, state or local law not otherwise specifically cited in these Standards of Student Conduct while on college or district property or by means of electronic resources.

ALCOHOL / DRUG FREE WORKPLACE

Allan Hancock College is committed to providing its employees and students with a drug-free workplace and campus environment. The Allan Hancock College Substance Abuse Program emphasizes prevention and intervention through education. The dissemination of current and accurate information enables students, officers and employees to be better informed. Educational programs shall provide relevant courses, seminars and lectures, and student services shall focus on providing guidance and referral for those affected by alcohol or substance abuse. Coordination shall be effected with educational agencies and with appropriate community organizations.

The unlawful manufacture, distribution, dispensing, possession or use of alcohol or any controlled substance is prohibited on Allan Hancock College property; during any college-sponsored field trip, activity or workshop; and in any facility or vehicle operated by the college.

Violation of this prohibition will result in appropriate action up to and including termination of employment, expulsion and referral for prosecution, or, as permitted by law, may require satisfactory participation in an alcohol or drug abuse assistance or rehabilitation program.

SMOKING POLICY

In the interest of employee health and the general welfare of students and the public, smoking is not permitted in any indoor college facility or in any vehicle owned, operated, leased or chartered by the district, except as may be required in theatrical rehearsals and performances. Smoking is not permitted within 25 feet of any district building or leased facility and is permitted only in designated areas. The Facilities Council will be responsible for recommending the location of the designated smoking areas.

(Allan Hancock College Board Policy 8991)

OPEN CLASS POLICY

It is the policy of the Allan Hancock Joint Community College District that, unless specifically exempt by statute, every course, course section or class, the full-time equivalent student (FTES) of which is to be reported for state aid, wherever offered and maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to the college and meets such prerequisites as may be established pursuant to Title 5 of the California Code of Regulations. Limited English language skills will not be a barrier to admission to the college and to participation in its academic and vocational programs.

La limitacion en la idioma ingles no sera una barrera para ser admitidos en el colegio y participar en los programas educacionales y vocacionales.

Personal Security for Distance Learning Students

Allan Hancock College does not restrict enrollment in distance learning classes any more than it does in on-site classes. The law requires that all qualified students be admitted. Students are encouraged to exercise the same kind of caution in a distance learning class as they would when taking an on-site class. Do not share personal information, including phone number or address, with a relative stranger or new acquaintance. Additional advice about maintaining personal security while enrolled in a distance learning class will be provided by the instructor of the class.

CANCELED CLASSES

The college reserves the right to cancel classes due to low enrollment or other circumstances.

WORK LOAD FOR NORMAL PROGRAM

A full-time unit load consists of 12 units per semester. For every unit in which a student enrolls, the student should set aside two hours of study time per week to support a quality learning experience. For example, if a student is enrolled in 12 units, it is strongly recommended to study 24 hours outside of class time. Many students need to work while they are attending college. Because of the preparation time noted above, it is generally not possible for a student to take a full course load while being employed full-time. It is recommended that a student talk to a counselor regarding unit load for each semester.

With approval from a counselor, students who have received a grade point average of a 3.0 or better may enroll in additional units. For example, students requesting to enroll in more than 20.5 units in a regular semester are required to see a counselor for approval, and students requesting to enroll in more than nine units in a summer session are also required to see a counselor for approval.
APPRENTICESHIP TRAINING

The apprenticeship program combines on-the-job training with related instruction. It is open to all individuals without regard to race, color, religion, disability, national origin or gender. To become an indentured apprentice, students must follow the state-approved Local Joint Apprenticeship Committee Standards and selection process.

A variety of apprenticeship courses listed in this catalog meet the primary objectives for indentured apprentices and qualified applicants only. They may not be taken on a pass/no pass basis, nor may credit be obtained by examination. Students completing the requirements for apprenticeship will be awarded certificates of completion. For specific information, students should contact the coordinator of apprenticeship at (805) 922-6966 ext. 3298.

ATTENDANCE

Regular attendance at all class sessions is a primary obligation of the student. Both the successful completion of college work and the financial support of the college are dependent on regular attendance. A normal class period is 50 minutes in length and students are required to remain for the entire period. Each college instructor will explain the absence policy for his or her class at the beginning of the semester; however, failure to attend regularly may result in a reduction of the student's final grade, or in the student being dropped from the class altogether. In the event of a prolonged illness, instructors should be notified either by the student or by Health Services. Veterans should contact the Financial Aid/Veterans Affairs office on the Santa Maria campus.

AUTHORITY OF INSTRUCTORS

Dropping Students

For the guidance of instructors, each department will develop its own standard concerning dropping students with excessive absences. Individual instructors will include in the course syllabus, which is distributed to students, a statement, consistent with the departmental standard, concerning student absences. Copies of course syllabi will be on file with the appropriate academic dean. Students who have absences exceeding the number permitted under these standards may be dropped by the instructor.

Suspending Students

Any student who violates the Guidelines for Student Conduct adopted by the Board of Trustees may be suspended from a class by the instructor for two consecutive class sessions, to include the day of removal.

ACADEMIC HONESTY

Honesty and integrity are essential to the academic community. Faculty, students and staff are expected to be truthful, trustworthy and fair in all academic endeavors. Students who violate these principles by cheating, plagiarizing or acting in other academically dishonest ways are subject to disciplinary action.

Below are examples of academically dishonest behaviors.

- Copying from another student's work without instructor approval
- Giving answers to another student without instructor approval
- Using notes, books or other unauthorized materials during an exam
- Taking a test for someone else
- Submitting someone else's work as one's own
- Completing an assignment for another student
- Using other people's ideas, words, images or artistic works – from any medium, including the Internet – without acknowledging them with proper documentation

If an instructor determines, after a conference with the student, that the student has been academically dishonest, the instructor at his/her discretion may issue a failing grade on the assignment, or take other measures that are reasonable and appropriate. The student may also be subject to further disciplinary action through the vice president, student services.

An appeals process is available to the student through the office of the vice president, student services.

CHANGE OF PROGRAM (ADDS AND DROPS)

During the first week of a semester-length course, a student may add an open class via online registration at www.hancockcollege.edu after obtaining an add authorization code from the class instructor. To add a class after the first week, the instructor and student must complete a Faculty Request for Special Late Student Admission to Class form. The form must be submitted to the Admissions and Records office for approval. Access to drop a class is available online at www.hancockcollege.edu. Non-attendance does not constitute official withdrawal. It is the student's responsibility to drop their classes by the published date. Students may drop classes on or prior to the last date to drop listed in the online class search without incurring grade responsibility. This policy refers to semester-length classes. For specific information regarding non-semester-length classes, refer to online class search.

FINAL EXAMINATIONS

Final examinations are required at the close of each semester's work. Students failing to take these examinations will forfeit the right to receive any credit for the course. Absence due to illness will be excused only when verified by a physician's excuse in writing. Requests for special examination to meet the student's own personal needs (at a time other than that regularly scheduled) must be approved in advance by the instructor.

WITHDRAWAL FROM COLLEGE

Prior to the end of the 12th week of instruction for semester-length classes, or 75 percent of the length of shorter term classes, a student may officially withdraw from classes online at www.hancockcollege.edu.
ACADEMIC CREDIT

Unit of Credit
The unit of credit represents one hour of lecture or recitation per week for one semester. In laboratory, physical education and some other courses, additional hours are required for each unit. Each unit of work in academic subjects presupposes two hours of outside preparation.

The College Board Advanced Placement Program
Allan Hancock College grants credit towards its associate degrees for successful completion of examinations in the Advanced Placement Program of the College Entrance Examination Board. Students who complete Advanced Placement Examinations with scores of 3, 4 or 5 will receive credit according to the chart on page 41.

Credit awarded through advanced placement may be used to satisfy graduation. The units earned from advanced placement credit cannot be used to satisfy the 12-unit residency requirement or be applied toward financial aid.

Transfer students should check with their receiving institution or the University Transfer Center about policies for using advanced placement examination scores and credits toward meeting admission, IGETC, CSU General Education-Breadth and/or graduation requirements. An official copy of the student's advanced placement scores should be sent to the Admissions and Records office. Units earned from advanced placement credit will be posted to the student's academic record at the time the student petitions to graduate.

College Level Examination Program (CLEP)
Allan Hancock College will grant a maximum of 30 units of credit for any combination of CLEP General and Subject Examinations that have been completed with an appropriate score. CLEP credit may be used to meet Allan Hancock College graduation requirements, but will not be counted toward the 12-unit residency requirement. Students intending to transfer should be aware that CLEP credits may or may not be accepted by other colleges and universities. Students are advised to meet with a counselor regarding the use of CLEP in the student's educational plan.

Transfer of Credit and Course Waiver
Allan Hancock College will waive certain course requirements or allow students to substitute required Allan Hancock College courses, providing that Allan Hancock College does not offer the course on a regular basis, the college offers a comparable course or if the student has completed a comparable course at another accredited college.

Allan Hancock College cannot grant a course waiver or course substitution that is inconsistent with Title 5 regulations nor can the college ensure that another college or university will accept a waiver or substitution granted by Allan Hancock College.

Students wishing to petition for a waiver or substitution of a course(s) for an associate in arts degree, an associate in science degree or a certificate should contact the Counseling Department.

The college will grant lower-division credit for degree-applicable coursework from regionally accredited colleges and universities listed in the American Council on Education (ACE) book. Contact Admissions & Records or Counseling for details.

Students from foreign institutions must have their transcripts translated and evaluated by a qualified translation and evaluation agency. Completed coursework will be considered for lower-division unit credit only if the foreign institution is listed in the American Council on Education (ACE) book.

Articulation of High School Courses
A partnership between Allan Hancock College and participating high schools facilitates the articulation of high school courses with freshman-level offerings at the college. Students may receive a "Waiver" or may receive "Credit by Examination."

Allan Hancock College's instructional departments are responsible for identifying high school courses that are deemed equivalent to specific Allan Hancock College courses. Once a student has successfully completed a more advanced course in the discipline at the college, the department will "waive" the course that has been articulated with work completed in high school. Students do not earn units and will not receive grade points for courses that have been waived; therefore, students' grade point averages will not be affected. The articulated course will appear on the student's transcript as a high school articulated course.

High school students may receive college credits for designated high school courses by successfully completing a "Credit by Examination" process. Allan Hancock College faculty will assure that the examination adequately measures mastery of the course content by consulting with high school faculty and setting explicit criteria for the examination. Once the student has completed a more advanced course in the discipline, specific course credit will be listed, annotated as "Credit by Examination" on the student's permanent record.

Students who have received an articulation certificate from an area high school or ROP instructor should explore receiving college credit. For criteria and eligibility information, students should contact the dean, academic affairs, building S2.

Military Service and Training Schools
See "Credit from Military Service."

Course Repetition
All Allan Hancock College courses in which a student has received a grade of D, F, NC and/or NP may be repeated twice for credit. In this situation, only the first non-passing grade's units will be removed and annotated as a repeated course. The last grade recorded will be used in determining the overall grade point average. However, when course repetition occurs with a grade of C or better, the permanent record shall be annotated in such a manner that all work remains legible.

Third Repetition of a Course with a Substandard Grade
In the event that the student receives a third substandard grade, the course may be repeated again only with the approval of the dean, student services/counseling and matriculation. If the dean approves the repetition and the student receives a grade of C or better, only the first substandard grade will be alleviated from the grade point average.

Federal financial aid regulations do not alleviate units or grade points removed through academic renewal or course repetition.
Allan Hancock College AP Equivalency List

<table>
<thead>
<tr>
<th>AP Examination</th>
<th>AP Score</th>
<th>AHC Associate Degree Subject Credit</th>
<th>AHC Unit Credit</th>
<th>AHC GE</th>
<th>CSU GE</th>
<th>IGETC</th>
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<tbody>
<tr>
<td>Art History</td>
<td>3, 4, 5</td>
<td>ART 103</td>
<td>3</td>
<td>Category 3</td>
<td>3 sem units toward Area C1 or C2</td>
<td>3 sem units toward Area 3A or 3B</td>
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<tr>
<td>Biology</td>
<td>3, 4, 5</td>
<td>BIOL 100</td>
<td>4</td>
<td>Category 1</td>
<td>4 sem units in Area B2 &amp; B3</td>
<td>4 sem units toward Area 5A w/lab</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3, 4, 5</td>
<td>MATH 181</td>
<td>5</td>
<td>Category 4B</td>
<td>3 sem units toward Area B4</td>
<td>3 sem units toward Area 2A</td>
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<tr>
<td>Calculus BC</td>
<td>3, 4, 5</td>
<td>MATH 181+182</td>
<td>10</td>
<td>Category 4B</td>
<td>3 sem units toward Area B4</td>
<td>3 sem units toward Area 2A</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3, 4, 5</td>
<td>CHEM 120, CHEM 150</td>
<td>4</td>
<td>Category 1</td>
<td>4 sem units toward Area B1 &amp; B3</td>
<td>4 sem units toward Area 5A w/lab</td>
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<tr>
<td>Chinese Language and Culture</td>
<td>3, 4, 5</td>
<td>No Equivalent Course</td>
<td>3</td>
<td>Category 3</td>
<td>3 sem units toward Area C2</td>
<td>3 sem units each toward Area 3B and 6A</td>
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<tr>
<td>Computer Science A</td>
<td>3, 4, 5</td>
<td>CS 121</td>
<td>(Elective) 4</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
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<td>3, 4, 5</td>
<td>CS 121+122</td>
<td>(Elective) 6</td>
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<td>N/A</td>
<td>N/A</td>
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<td>3, 4, 5</td>
<td>ENGL 101</td>
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<td>3 sem units toward Area A2</td>
<td>3 sem units toward Area 1A</td>
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<tr>
<td>English Literature and Composition</td>
<td>3, 4, 5</td>
<td>ENGL 102</td>
<td>(Elective) 3</td>
<td>N/A</td>
<td>6 sem units toward Area A2 &amp; C2</td>
<td>3 sem units toward Area 1A or 3B</td>
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<td>3, 4, 5</td>
<td>ENVS 101</td>
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<td>Category 1</td>
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<td>3 sem units toward Area 5A w/lab</td>
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<td>European History</td>
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<td>No Equivalent Course</td>
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<td>Category 3</td>
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<td>3 sem units toward Area 3B or 4F</td>
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<td>French Language</td>
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<td>3 sem units each toward Area 3B and 6A</td>
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<td>German Language</td>
<td>3, 4, 5</td>
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<td>Category 3</td>
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<td>3 sem units each toward Area 3B and 6A</td>
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<td>Government and Politics: Comparative</td>
<td>3, 4, 5</td>
<td>No Equivalent Course</td>
<td>3</td>
<td>Category 2A</td>
<td>3 sem units toward Area D8</td>
<td>3 sem units toward Area 4H</td>
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<tr>
<td>Government and Political: United States</td>
<td>3, 4, 5</td>
<td>N/A</td>
<td>3</td>
<td>Category 2B</td>
<td>3 sem units toward Area D8</td>
<td>3 sem units toward Area 4H</td>
</tr>
<tr>
<td>Human Geography</td>
<td>3, 4, 5</td>
<td>GEOG 102</td>
<td>3</td>
<td>Category 2A</td>
<td>3 sem units toward Area D5</td>
<td>3 sem units toward Area 4E</td>
</tr>
<tr>
<td>Italian Language and Culture</td>
<td>3, 4, 5</td>
<td>ITAL 103</td>
<td>5</td>
<td>Category 3</td>
<td>N/A (F10)</td>
<td>3 sem units each toward Area 3B and 6A</td>
</tr>
<tr>
<td>Japanese Language and Culture</td>
<td>3, 4, 5</td>
<td>No Equivalent Course</td>
<td>3</td>
<td>Category 3</td>
<td>3 sem units toward Area C2</td>
<td>3 sem units each toward Area 3B and 6A</td>
</tr>
<tr>
<td>Latin Literature</td>
<td>3, 4, 5</td>
<td>No Equivalent Course</td>
<td>3</td>
<td>Category 3</td>
<td>N/A (F09)</td>
<td>3 sem units each toward Area 3B and 6A</td>
</tr>
<tr>
<td>Latin: Virgil</td>
<td>3, 4, 5</td>
<td>No Equivalent Course</td>
<td>3</td>
<td>Category 3</td>
<td>3 sem units toward Area C2</td>
<td>3 sem units each toward Area 3B and 6A</td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>3, 4, 5</td>
<td>ECON 101</td>
<td>3</td>
<td>Category 2A</td>
<td>3 sem units toward Area D2</td>
<td>3 sem units toward Area 4B</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>3, 4, 5</td>
<td>ECON 102</td>
<td>3</td>
<td>Category 2A</td>
<td>3 sem units toward Area D2</td>
<td>3 sem units toward Area 4B</td>
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<tr>
<td>Music Theory</td>
<td>3, 4, 5</td>
<td>MUS 111</td>
<td>4</td>
<td>Category 3</td>
<td>N/A (F09)</td>
<td>N/A</td>
</tr>
<tr>
<td>Physics B</td>
<td>3, 4, 5</td>
<td>N/A</td>
<td>3</td>
<td>Category 1</td>
<td>4 sem units toward Area B1 &amp; B3</td>
<td>4 sem units toward Area 5A w/lab</td>
</tr>
<tr>
<td>Physics C: Electricity and Magnetism</td>
<td>3, 4, 5</td>
<td>PHYS 141</td>
<td>4</td>
<td>Category 1</td>
<td>4 sem units toward Area B1 &amp; B3</td>
<td>3 sem units toward Area 5A w/lab</td>
</tr>
<tr>
<td>Physics C: Mechanics</td>
<td>3, 4, 5</td>
<td>PHYS 141</td>
<td>4</td>
<td>Category 1</td>
<td>4 sem units toward Area B1 &amp; B3</td>
<td>3 sem units toward Area 5A w/lab</td>
</tr>
<tr>
<td>Psychology</td>
<td>3, 4, 5</td>
<td>PSY 101</td>
<td>3</td>
<td>Category 2A</td>
<td>3 sem units toward Area D9</td>
<td>3 sem units toward Area 4I</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>3, 4, 5</td>
<td>SPAN 103</td>
<td>5</td>
<td>Category 3</td>
<td>3 sem units toward Area C2</td>
<td>3 sem units each toward Area 3B and 6A</td>
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<td>Spanish Literature</td>
<td>3, 4, 5</td>
<td>N/A</td>
<td>N/A</td>
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<td>3 sem units toward Area C2</td>
<td>3 sem units each toward Area 3B and 6A</td>
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<tr>
<td>Statistics</td>
<td>3, 4, 5</td>
<td>MATH 123</td>
<td>4</td>
<td>Category 4B</td>
<td>3 sem units toward Area B4</td>
<td>3 sem units toward Area 2A</td>
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<tr>
<td>Studio Art: 2D Design</td>
<td>3, 4, 5</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Studio Art: 3D Design</td>
<td>3, 4, 5</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Studio Art: Drawing</td>
<td>3, 4, 5</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>United States History</td>
<td>3, 4, 5</td>
<td>HIST 118, HIST 107+108</td>
<td>3</td>
<td>Category 2B</td>
<td>3 sem units toward Area C2 or D6</td>
<td>3 sem units toward Area 3B or 4F</td>
</tr>
<tr>
<td>World History</td>
<td>3, 4, 5</td>
<td>HIST 101, HIST 101+102</td>
<td>3</td>
<td>Category 3</td>
<td>3 sem units toward Area C2 or D6</td>
<td>3 sem units toward Area 3B or 4F</td>
</tr>
</tbody>
</table>
Reciprocity
A course for which substandard academic performance was recorded at Allan Hancock College may be repeated at another accredited college or university if, after the student submits a copy of the course outline, syllabus and/or catalog description, the course is determined to be equivalent. Official transcripts from the other institution must be submitted to Allan Hancock College to verify the course was completed with a grade of C or better, and for equivalency consideration a petition must be filed and a $20 fee paid to cover costs. Federal financial aid regulations do not alleviate units or grade points removed through academic renewal or course repetition.

Repetition of a Course Previously Successfully Completed
Students attempting to repeat a course are prevented from registering by a computer block. Repetition of courses for which substandard work has not been recorded (A, B, C, P or CR) shall be permitted only upon petition of the student and with written permission of the appropriate dean. If a course does not have allowable repetition, authority is granted to the deans to approve repetition of a course under special circumstances, which may include one of the following:

1. A significant period of time has elapsed since the student first took the course; AND
2. The subject matter of the course has changed because of changing technology or principles;
3. The course was taken for credit and the student now needs a letter grade because the course is in his or her major;
4. Other valid situations as evaluated by the instructor and the appropriate dean.

Federal financial aid regulations do not alleviate units or grade points removed through academic renewal or course repetition.

Course repetition is permitted without petition when such repetition is necessary for a student to meet a legally mandated training requirement as a condition of continued paid or volunteer employment. Such courses may be repeated for credit any number of times and are identified in the course description in the schedule of classes.

Special circumstances course repetitions will be indicated as repeated on the permanent academic record of the student. Grades awarded for special circumstances course repetitions will not be counted in calculating a student's grade point average. In addition, there is no assurance that repeated courses resulting in an improvement in grade will be accepted by other colleges and universities.

Academic Renewal
Courses where substandard grades have been received may be disregarded in the computation of a student's grade point average if the work was not reflective of the student's present scholastic level of performance. A student may request academic renewal for not more than three periods of enrollment of coursework completed at Allan Hancock College under the following conditions:

1. A period of at least one year has elapsed since the work to be alleviated was completed;
2. A student must have completed either a minimum of 18 semester units with at least a 2.4 GPA or 24 semester units with at least a 2.0 GPA at Allan Hancock College and/or another accredited college or university since the work to be alleviated was completed;
3. The student may choose to have either 1) all coursework taken in a substandard semester (or term) disregarded in the computation of GPA; or 2) individual sub-standard (D or F) coursework taken in a semester (or term) disregarded in the computation of GPA. The semesters need not be consecutive;
4. When work is alleviated, the permanent academic record shall be annotated in such a manner that all work remains legible, ensuring a true and complete academic history. The semester(s) involved will not be deleted, but the units and grade points will be removed to calculate the grade point average.

Federal financial aid regulations do not alleviate units or grade points removed through academic renewal or course repetition.

A petition may be obtained in the Counseling Department. If the petition is granted, the above process of academic renewal will be followed.

CREDIT BY EXAMINATION
Credit by examination enables a student to receive academic credit by demonstrating mastery of subject matter or skills equivalent to a specific Allan Hancock College course. Each academic department determines which courses may be challenged and is responsible for developing and administering an appropriate comprehensive examination. Students may not be currently enrolled in a course equal to or more advanced than the course to be challenged, nor may they have received previous high school or college credit for such a course. To apply for credit by examination, a student must be enrolled in the current semester, be in good standing and must have completed a minimum of 12 units at Allan Hancock College. Students must apply within the first week of instruction for summer session and within the first three weeks of instruction for fall and spring semesters – there are no exceptions. Units earned by credit by examination are not considered to be part of the student's official program and will not be used for reports to Financial Aid, Veterans Administration or similar agencies. There are no fees assessed for credit by examination. The grade received for the exam will be the grade earned for the class – there are no exceptions. The final grade will appear on the student's official transcript and academic history. A maximum of 12 units of credit may be allowed by special examination. Petitions for credit by examination are available in the Admissions and Records office. All petitions must be approved by the director, admissions and records; the instructor administering the exam; the department chair; and the dean, academic affairs. Students petitioning for Credit by Examination must provide transcripts from all previously attended U.S. high schools and/or colleges (unofficial copies accepted) for verification that the student has not completed the course, its equivalent or a higher course at another educational institution.
ACADEMIC RECOGNITION

Students who complete all units used for graduation with a grade point average of 3.5 or higher will graduate with honors. Students whose grade point average is 4.0 will graduate with high honors. All grades and units earned at other colleges, including Allan Hancock College, are used in computing the student's GPA for graduation.

Students who complete 12 units or more in letter-graded courses with a grade point average of 3.5 or higher will be placed on the Honors List for that semester. Students who earn a 4.0 grade point average under the above conditions will be placed on the Special Honors List.

AUDITING

Auditing of classes is not permitted. All students who attend class must be officially enrolled.

GRADING SYSTEM

Student achievement is evaluated in relation to the attainment of the specific objectives of a course. At the beginning of a course, the instructor will explain these objectives and the basis upon which grades will be determined.

Grade definitions are as follows:
A - Excellent attainment of course objectives
B - Good attainment of course objectives
C - Satisfactory attainment of course objectives
D - Passing, less than satisfactory attainment of course objectives
F - Failing
I - Incomplete. Satisfactory but incomplete work for unforeseeable, emergency and justifiable reasons
W - Withdrawal. This grade may be assigned upon student petition or may be assigned by the instructor.
P - Pass, at least satisfactory (C or better)
NP - No-pass, less than satisfactory or failing
RD - Report Delayed. Assigned only by the director, admissions and records

Grade Point and Grade Point Average

Allan Hancock College uses the same system of grade points which the four-year colleges and universities use to give an overall appraisal of a student's level of achievement.

A - 4 grade points per unit earned
B - 3 grade points per unit earned
C - 2 grade points per unit earned
D - 1 grade point per unit earned
F - 0 grade points per unit earned
P, NP, W and I—not included in computing GPA

The grade point average (GPA) is determined by multiplying the grade points for each unit times the number of units and then dividing the total units attempted into the total grade points received. (P, I, W, NP are not included in the GPA computation). See example.

| 4 units of B | 3 points | = | 12 grade points |
| 2 units of A | 4 points | = | 8 grade points |
| 2 units of C | 2 points | = | 4 grade points |
| 3 units of D | 1 point | = | 3 grade points |
| 1 unit of F | 0 points | = | 0 grade points |

12 units = 27 grade points

Now divide the total grade points (27) by the total attempted units (12). 27 divided by 12 = 2.25 GPA.

Allan Hancock College annotates two grade point averages on a student's academic transcript. The Allan Hancock College cumulative GPA is based on all units attempted and units earned in all AHC credit courses. The degree applicable total is based on the total number of units attempted and units earned in Allan Hancock College degree applicable credit courses.

Students are expected to monitor their own grade point averages to ensure that their scholarship meets individual program, financial aid or transfer requirements. Veterans should refer to the Veterans' Bulletin.

Pass/No-Pass Grading Policy

No later than the first 30 percent of the semester, students may elect whether the basis of evaluation is to be pass/no-pass or a letter grade. Pass/no-pass courses are so designated in the Announcement of Courses section of this catalog.

A student may elect the pass/no-pass option during online registration or by completing a pass/no-pass option form and submitting it to the Admissions and Records office in Santa Maria or the administrative office of the Lompoc Valley, Solvang or Vandenberg AFB center before the deadline listed in the academic calendar, which is published in this catalog and in the schedule of classes and is online.

A student who has declared an option may not later rescind that choice. It is the student's responsibility to check the college catalog or with a counselor to verify that the course is offered with the pass/no-pass option.

The grades assigned to students electing the option will be P (pass) for those who have attained course objectives to the satisfaction of the instructor, NP (no-pass) for those who have not attained the course objectives, or I (incomplete).

The mechanics of pass/no-pass grading are as follows:

1. Students who perform at a level equivalent to A, B or C will receive the grade P. Students will be awarded units for the course but their grade point averages will not be affected.
2. Students who perform at a level equivalent to D or F will receive NP as a grade. No units will be granted and no grade points will be awarded.
3. For classes starting after the beginning of the semester or term, the option must be declared at the time of enrollment.

Limitations on Pass/No-Pass Grades

Courses taken on a pass/no-pass basis cannot be used to meet major requirements for degrees or certificates. Students transferring to four-year schools should not elect more than one class per semester for pass/no-pass. No more than 16 units of P graded courses may be applied toward an AA/AS degree and courses in the major shall not be taken on a P/NP basis. Certain courses such as health occupations laboratory classes (pass only) are exceptions.
Incomplete (I)

The grade of I may be given for satisfactory but incomplete work for unforeseeable, emergency and justifiable reasons at the end of the semester or term. The instructor will indicate the condition of the removal of the I and the grade assigned in lieu of its removal, will give one copy to the student and will file a copy with the Admissions and Records office. A final grade will be assigned when the work stipulated has been completed and evaluated, or when the time limit for completing the work has passed. The I may be made up no later than 180 calendar days following the end of the semester or term in which it was assigned.

Withdrawal (W)

This grade may be assigned upon student petition or may be assigned by the instructor. Students may obtain a program change form from the Santa Maria campus Admissions and Records office or the administration office at the Lompoc Valley, Vandenberg AFB or Solvang center and complete it any time prior to the last day of the 12th week of a semester class or 75 percent of shorter term classes. An instructor may drop a student for nonattendance and assign a W within the same time limits. A grade of W may not be given after the times indicated above.

A student who officially withdraws from a class during the first four weeks of semester-length classes or during the first 25 percent of a term will receive no grade of record.

Military Withdrawal (W)

A student who is an active or reserve member of the U.S. military may be assigned a withdrawal symbol at any time after the period established by the governing board for withdrawal from class. The W symbol may be assigned upon verification of military orders. The student must submit a written request to withdraw and attach military orders. Contact the Admissions and Records office for further information.

Remedial Course Limit

Allan Hancock College offers courses which are defined as remedial. Remedial courses are those credit courses in reading, writing, math, English, learning skills, study skills and English as a Second Language which have been designated as non-degree applicable courses designed to assist the underprepared student to develop the academic skills necessary for college-level work.

No student shall receive more than 30 semester units of credit for remedial course work. Exceptions to this 30-unit limit are students enrolled in one or more courses of English as a Second Language and students identified by the district as having a verified learning disability. Students who reach the 30-unit limit and do not elect to advance to the college level program will be referred to the college’s noncredit basic education program. Students wishing to continue in the credit remedial program may petition for a waiver of the limitations of this policy.

Petition forms are available in the Admissions and Records office. Petition forms should be completed and filed with the Remedial Appeals Committee.

Petitions will be evaluated on the basis of the student’s measurable progress toward the development of skills appropriate to enrollment in college level classes. Documentation of measurable progress may be reflected in instructor/ counselor evaluations, pre- and post-tests or progress as stated in the individual’s Student Educational Plan (SEP). If a waiver is granted, it should not exceed one academic year.

GRADUES

Final grades will be made available to students as soon as possible after the end of each semester. Grade cards are not mailed to students. Grades are accessible online by clicking the myHancock link. Subject to Education Code 76224, the grades awarded by an instructor in the absence of mistake, fraud, bad faith or incompetency are final and cannot be changed without instructor consent. All grades will be final unless the instructor reports an error in grading to the Admissions and Records office no later than three months after the end of the semester or term in which the grade was earned.

GOOD STANDING, PROBATION AND DISMISSAL

General

Students at Allan Hancock College are required to maintain a specific level of academic performance to be in good standing. This performance is based on the provisions of Title 5 of the California Code of Regulations and the Governing Board of Allan Hancock College. If a student has attempted eight or more units at Allan Hancock College but cannot maintain good standing, he/she will be placed on probation. Probationary students will be assisted to regain good standing.

Good Standing

A 2.0 (C) is the minimum Allan Hancock College standard for a satisfactory grade point average. The college’s minimum progress standard requires that a student complete at least half of the units attempted with a letter grade (A, B, C, D, F) or a P (pass). The student who meets the minimum cumulative progress standards and has both a semester and cumulative grade point average of 2.0 or above will be in good standing at Allan Hancock College.

Academic Probation

The student who has attempted eight or more semester units at Allan Hancock College and has a grade point average (GPA) of less than 2.0 (C) for the most recently completed semester, or has a cumulative grade point average of less than 2.0 for all attempted units, will be on academic probation.

First-time Academic Probation

This condition exists the semester following the first semester the student’s GPA or cumulative GPA drops below 2.0. The student is encouraged to meet with a counselor to determine appropriate action to resolve the problem.

Second-time Academic Probation

If at the end of the first semester of academic probation the student has not achieved a 2.0 cumulative GPA, a second-time probationary status will result. A student on second-time academic probation will be required to meet with a counselor to identify the deficiencies that resulted in the probation status, determine what actions are needed to regain and maintain a 2.0 GPA, and develop a course schedule for the upcoming semester. A student on second-time probation...
is limited to nine units of credit courses. If a student on second-time academic probation earns a semester GPA of 2.0, but the cumulative GPA is less than 2.0, the student remains on probation until their cumulative GPA reaches at least a 2.0.

Progress Probation

The student who has attempted eight or more units at Allan Hancock College, but has not completed at least 50 percent of those units with a grade of A, B, C, D, F or P (pass) will be on progress probation.

First-time Progress Probation

This condition exists the semester following the first semester the student has not completed at least 50 percent of the units he/she has attempted with a grade of A, B, C, D, F or P. The student is encouraged to meet with a counselor to determine appropriate action to resolve the situation.

Second-time Progress Probation

If at the end of the first semester of progress probation the student has not completed 50 percent of the attempted units, a second-time progress probation status will result. A student on second-time progress probation will be required to meet with a counselor to identify the deficiencies that created the probation status, determine what actions are needed to complete 50 percent of the units taken, and develop a course schedule for the upcoming semester. A student on second-time probation is limited to nine units of credit courses. If a student on second-time progress probation completes at least 50 percent of the units attempted, but the overall percentage is still less than 50 percent, the student remains on probation until their completed units reach at least 50 percent of the units attempted.

Notification of Probation

Students on academic and/or progress probation will be notified at the end of the semester by letter explaining their deficiencies. The letter encourages students to meet with a counselor to identify the deficiencies that led to their probation status, determine what actions are needed, and to develop a course schedule for the upcoming semester. Students who have been dismissed receive a letter notifying them of their dismissal. The letter also includes an application for reinstatement to the college.

Probation Appeal Provision

A student who is placed on probation may submit an appeal. For appeal forms and guidelines, contact the office of the dean, student services/counseling and matriculation.

Dismissal

A student who does not meet the college's minimum standards while on second-time probation status will be subject to dismissal from the college. A dismissed student is not eligible to register for credit classes.

Notification of Dismissal

Students will be notified by letter that they are subject to dismissal. The dismissal letter will include an explanation of dismissal, the procedure for reinstatement and the procedure to appeal the dismissal.

Reinstatement

A student who has been dismissed from the college may complete a reinstatement application to be considered for enrollment. The application will be submitted to the Counseling Department and will be reviewed by the Probation Committee. If the application provides a reasonable assurance that the student will be able to meet minimum Allan Hancock College requirements, it will be approved and the student will be reinstated to the college. The reinstatement application and additional information regarding probation are available in the Counseling Department and on the Counseling website. The deadline for submitting a reinstatement application is also available from the Counseling Department.

Dismissal Appeal Provision

The Probation Committee reviews each application for reinstatement and the dean, student services/counseling and matriculation, acts on appeals in the event that a student is denied reinstatement and is requesting additional consideration.

Removal from Probation

A student will be automatically removed from probation when the cumulative grade point average reaches 2.0 or higher and the completed units reach 50 percent or above for all accumulated units of enrollment.

TRANSCRIPTS

There is no charge for the first two transcripts of a student's record issued by Allan Hancock College. There is a charge of $4 for each additional transcript and $10 if demand service is requested. Transcripts of grades for students who fail to return equipment or who have any unpaid accounts are withheld until the financial obligation is cleared. The Admissions and Records office reserves up to 10 working days to process transcript requests.

STUDENT RECORDS - FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA) - Release of Information

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within 45 days of the day Allan Hancock College receives a request for access. Students should submit to the Director, Admissions and Records, a written request that identifies the record(s) they wish to inspect. The director will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Admissions and Records Office, the student shall be advised of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student’s education records that the student believes is inaccurate. Students may ask Allan Hancock College to amend a record that they believe is inaccurate. They should write the director, clearly identify the part of the record they want changed, and specify why it is inaccurate. If Allan Hancock College decides not to amend the record as requested by the student, the student shall be
notified of the decision and advised as to his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by Allan Hancock College in an administrative, supervisory, academic, research or support staff position (including law enforcement personnel and health staff); a person or company with whom Allan Hancock College has contracted (such as an attorney, auditor, collection agent, degree conferral and transcript processing agent, document managing agent and placement sites for internship or similar student work/study opportunities); a person serving on the Board of Trustees; a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks; and/or consultants, volunteers or other outside parties to whom Allan Hancock College has outsourced institutional services or functions that it would otherwise use employees to perform. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. As allowed within FERPA guidelines, Allan Hancock College may disclose education records without consent to officials of another school, upon request, in which a student seeks or intends to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Allan Hancock College to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue SW
Washington, DC  20202-4605

At its discretion Allan Hancock College may provide Directory Information in accordance with the provisions of the Family Education Rights and Privacy Act. Directory Information is defined as that information which would not generally be considered harmful or an invasion of privacy if disclosed. Designated Directory Information at Allan Hancock College includes the following: name, date and place of birth, dates of attendance, most recent previous public or private school attended, major field of study, hometown, participation in officially recognized activities and sports, weight and height, and high school of graduation of athletic team members; degrees and awards received by students, including honors, scholarship awards, athletic awards, and deans list recognition. Students may withhold Directory Information by notifying the director of Admissions and Records in writing; please note that such withholding requests are binding for all information to all parties other than for those exceptions allowed under the Act. Students should consider all aspects of a Directory Hold prior to filing such a request. Requests for non-disclosure will be honored by Allan Hancock College for no more than one academic year. Re-authorization to withhold Directory Information must be filed annually in the Admissions and Records Office.

PHOTO AND VIDEOTAPE POLICY

Allan Hancock College takes photos of and videotapes students throughout the year. These images often include students in classrooms, study areas, athletic events, etc. Allan Hancock College reserves the right to use these photographs as a part of its publicity and marketing efforts. Students who enroll at Allan Hancock College do so with the understanding that these photographs might include them and/or their family members and might be used in college publications, both printed and electronic, and for publicity.

COPYRIGHT REGULATIONS

Allan Hancock College complies with all federal regulations including the TEACH Act. Students and staff are prohibited from using the Allan Hancock College network to illegally download or share music, videos or other copyrighted materials. In accordance with the Higher Education Opportunity Act (HEOA) and Digital Millennium Copyright Act, college administrators may be obliged to provide to copyright holders and law enforcement officials information about AHC network users who have violated the law. There may be both civil and criminal penalties and fines for copyright violations. For questions pertaining to copyright issues, please contact the associate dean, learning resources, at (805) 922-6966 ext. 3475.

USA PATRIOT ACT

Allan Hancock College complies with the requirements of the USA PATRIOT Act. This law provides federal officials with the authority to conduct searches of business records and data. Examples of records and data that might be retrieved include, but are not limited to:

- Email records on computers and servers
- Internet search history on computers and servers
- Library user records
- Telephone call logs
- Student records and files

EXPLANATION OF COLLEGE TERMS

A.A. – Associate in Arts Degree: General degree granted by California community colleges. See Graduation Requirements.

A.S. – Associate in Science Degree: General degree granted by California community colleges, having more emphasis on two-year vocational training than the A.A. degree. See Graduation Requirements.

Advanced Standing: Classification of student who has had previous college work.

Bachelor's Degree: Degree granted by four-year colleges, usually the bachelor of arts (B.A.) or the bachelor of science (B.S.).

Class Schedule: The listing of courses to be offered each semester or term, including hours, instructors, and room assignments

Counselor: Trained faculty member assigned to assist students with personal, career, vocational and educational planning and development.
Credit Course (graded): Course for which units are granted.

Electives: Courses elected by the student which do not fulfill any specific requirement but provide units toward the degree.

Fast Track: Courses held throughout the semester. Fast Track classes meet eight weeks or less, many are only one or two days, some are on weekends. Space permitting, students can register for classes up to the first day of class.

General Education: Certain groups of courses required of all degree candidates regardless of their major. These differ for the A.A. and A.S. degrees and from those general education courses required for transfer. See Transfer Information and Graduation Requirements.

Lower Division: The first two years of college work, i.e., freshman and sophomore years and/or courses. By law, only lower division work can be offered at Allan Hancock College.

Major: The major field of study a student plans to pursue, e.g., biology, nursing, etc.

Noncredit Course (ungraded): Course for which no units are given. This catalog contains only credit courses.

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. See page 43 for details.

Semester Unit: A semester unit represents one hour of lecture, two hours of activity, or three hours of laboratory per week for a semester. Graduation requires 60 semester units. One semester unit is equivalent to one and a half quarter units.

Student Study Load Requirements: Programs of 12 units or more are considered “full-time” for enrollment verification purposes for both fall and spring semesters and summer session.

Term: Classes that are accelerated into an eight-week term. There are two eight-week terms within each semester. Term classes have uniform beginning and ending dates and established registration deadlines. Final grades for Term 1 are not available until the end of the fall semester. Term 3 grades are not available until the end of the spring semester.

Upper Division: The last two years of college work, i.e., junior and senior years and/or courses. Upper division work is not offered at Allan Hancock College.
Transfer Information & Graduation Requirements

Commencement is a time for students to celebrate their hard work and dedication.
Students planning to enter a university or four-year college after attending Allan Hancock College are encouraged to consult the catalog of the college or university to which they intend to transfer. Admission requirements, as well as major and general education requirements, vary from institution to institution and students must assume the responsibility for selecting the courses which will permit them to achieve their educational objectives.

In addition to a wide range of general education classes, Allan Hancock College offers many of the courses that are required for the major or as preparation for the major. The professional counseling staff is available to assist students in planning a program of study that will allow them to enter the transfer institution at the junior level (upper division) in order to continue completing work toward the baccalaureate degree.

Catalogs for institutions in both the California State University (CSU) and University of California (UC) systems and many of the California independent colleges and universities are available for student use in the Allan Hancock College University Transfer Center. The center also provides assistance in completing applications for admission to campuses of the UC and CSU systems, as well as in obtaining applications for other institutions. Other center services include access to the Internet, application workshops, the facilitation of direct student contact with staff from four-year colleges, field trips to four-year colleges and universities, and assistance with the articulation and transferability of courses. Potential transfer students are encouraged to make full use of the resources and services available in the University Transfer Center.

Transfer Admission Guarantee

Transfer can be a complicated process. Allan Hancock counselors exist at Allan Hancock College to simplify the process and ensure students a smooth transition to four-year colleges and universities. While some universities offer transfer guarantees, at other colleges it is ultimately the student’s responsibility to successfully complete the correct classes and earn a competitive GPA. Students planning to transfer must work closely with a transfer counselor in order to complete the specific guidelines for the Transfer Admission Guarantee. The following colleges and universities are included:

California State University, East Bay (guarantee)
California State University, Monterey Bay (guarantee)
University of California, Davis (guarantee)
University of California, Irvine (guarantee)
University of California, Merced (guarantee)
University of California, Riverside (guarantee)
University of California, San Diego (guarantee)
University of California, Santa Barbara (guarantee)
University of California, Santa Cruz (guarantee)
Brandman University/Chapman University System, Santa Maria Valley Campus*
University of La Verne, Central Coast Center*
Embry Riddle Aeronautical University, VAFB*
Antioch University, Santa Barbara*
Columbia College, San Luis Obispo Center*

* Admits all eligible AHC transfer students

As each participating college or university has specific requirements, students who wish to take advantage of the Transfer Admission Guarantee must work with the University Transfer Center to develop and complete an approved course of study.

Requirements for the Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T)

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at California community colleges. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not guaranteed to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

At the time of catalog publication, no majors for the AA-T or AS-T have been approved. Majors are under development. For more information, please see a counselor.

Requirements

The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 CSU-transferable semester units
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
3. Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major as detailed in the Degrees & Certificates section of this catalog. All courses in the major must be completed with a grade of C or better or a “P” if the course is taken on a “pass/no-pass” basis (Title 5 § 55063).
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern (see the Transfer Information section of this catalog for more information).

Transfer Recognition Award

Allan Hancock College recognizes students who have completed a minimum of 24 units in residence and who have been accepted by an accredited four-year college or
Transfer to the University of California

Berkeley - Davis - Irvine - Los Angeles - Merced - Riverside - San Diego - San Francisco - Santa Barbara - Santa Cruz

Uniform Entrance Requirements

Nine of the 10 University of California campuses have uniform entrance requirements and certain features in common. Each campus is also distinctive and not all majors are offered on all campuses. Students should study the list of undergraduate colleges, schools and majors available on each campus to determine which will best satisfy their educational needs. Students may find it helpful to discuss with a counselor the particular advantages each campus has to offer.

Admission from Community Colleges

It is expected that students transferring from community colleges will have completed the entrance requirements described in University of California publications and catalogs.

Students who were eligible for admission to the University of California based upon high school grade point average, SAT or ACT scores and subject pattern completion, may be eligible to transfer with less than 60 college semester units (lower division transfer). However, the student must maintain a C average while attending Allan Hancock College. Some campuses of the UC system will not accept lower division transfer students. Check with a University Transfer Center counselor to determine available options. Students who met the grade point average requirements, but were ineligible for admission to the university from high school because of subject matter deficiencies, must complete a minimum of 12 acceptable units with a GPA of 2.0 or better and have completed or made up missing college preparatory subject requirements. A grade of C or better (C- is not acceptable) is required in each course used to make up a deficiency. Students who were ineligible for admission to the university from high school based upon both grade point average and subject deficiencies must have 60 UC transferable semester units including two approved courses in English composition; one approved UC transferable math course; and four approved UC transferable courses from at least two areas in arts and humanities, social and behavioral sciences, and biological and physical sciences. The UC list of eligible courses is available in the University Transfer Center.

A maximum of 70 community college semester units will be accepted for transfer by the university. Units earned at four-year colleges will be evaluated separately by UC for acceptance. In the Announcement of Courses section of this catalog, courses that are transferable to the University of California are identified. In addition, a list of Allan Hancock College courses acceptable at all university campuses is available in the University Transfer Center.

Intersegmental General Education Transfer Curriculum (IGETC) Certification Requirements

The Intersegmental Committee of the Academic Senates approved the Intersegmental General Education Transfer Curriculum (IGETC), which was implemented fall 1991. 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. The IGETC provides an option to the California State University General Education Requirements and replaces the University of California Transfer Core Curriculum. The IGETC will permit a student to transfer from a community college to a campus in either the California State University or the University of California system without the need, after transfer, to take additional lower-division general education courses to satisfy the university’s general education requirements.

In order to facilitate the transfer of AHC students who plan to attend a campus of the University of California or California State University system, certification of IGETC requirements may include previously completed courses from other institutions as well as courses completed in residence.

Courses completed at other campuses of the California community colleges must be certified in accordance with the pattern of the source institution. It is the student’s responsibility to provide: a) an official copy of his or her external transcript(s); and b) a dated general education certification pattern from the source institution which coincides with the term or terms in which such courses were completed.

Courses that have been completed at a regionally-accredited institution other than a California community college will be included only under the following circumstances:

1. the student provides an official transcript, catalog description(s) and, if required, dated course outline(s);
2. the course is determined to be equivalent to a course in Allan Hancock College’s IGETC pattern through the pass-along process and the student completed the course with a C grade or better.

Unit and subject matter credit for Advanced Placement (AP) exams will be included in the IGETC certification in accordance with the Intersegmental Committee of the Academic Senate’s Standards, Policies and Procedures for IGETC document. Students wishing to use units awarded for AP should check with the Counseling Department or University Transfer Center.

Generally, the evaluation and certification of general education requirements is done only once. In those cases where, for some reason, a revision is needed, the student may be required to pay a fee of $10 for the service.

All courses must be completed with a grade of C or better (C- is not acceptable).
Completion of the IGETC is not a requirement for transfer to a CSU or UC, nor is it the only way to fulfill the lower-division general education requirements of the CSU or UC prior to transfer. Some students, particularly those students majoring in engineering, computer science or sciences, may find it advantageous to take courses fulfilling those of a particular CSU or UC campus.

The 2011-2012 Intersegmental General Education Transfer Curriculum is shown below.

Courses cannot be used in more than one area.

### Area 1  English Communication

1A **English Composition [3] {1}**
- ENGL 101

1B **Critical Thinking [3] {1}**
- ENGL 103 #Fall 96
- PHIL 114 #Fall 93

1C **(CSU Only) Oral Communication [3] {1}**
- SPCH 101, 102, 106 #Spring 05

### Area 2  Mathematical Concepts and Quantitative Reasoning [3] {1}

- MATH 123*, 131*, 135*, 141*, 181*, 183, 184

### Area 3  Arts and Humanities [9]

3A **Arts [3] {1}**
- ART 101, 103, 104, 105, 106
- DANC 101
- DRMA 103, 110, 111
- FILM 101, 102, 107
- MUS 100, 101, 102, 104, 106 #Spring 05

3B **Humanities [3] {1}**
- ASL 121 #Fall 02, 138 #Fall 03
- ENGL 102 #Fall 96, 130, 131, 132 #Fall 99, 133, 135, 138 #Spring 05, 139 #Fall 99, 143 #Fall 00, 144 #Fall 08, 145, 146, 148 #Fall 96
- FILM 103 #Spring 06
- FRCH 102 #Fall 02
- HIST 101 #Fall 95, 102 #Fall 96, 104, 105, 138 #Fall 03
- HUM 101 #Fall 95, 102 #Fall 96, 104 #Fall 96, 105 #Fall 96
- ITAL 102 #Fall 96
- PHIL 101, 102, 105, 121, 122
- SPAN 102, 103, 104, 112 #Spring 07 148 #Fall 96

### Area 4  Social and Behavioral Science [9] {3}(2 different disciplines)

4A **Anthropology and Archaeology**
- ANTH 102, 103

4B **Economics**
- BUS 141 #Spring 05
- ECON 101, 102, 141 #Spring 05
- IS 141 #Spring 05

4E **Geography**
- GEOG 102, 103

4F **History**
- HIST 103 #Spring 07, 107*, 108*, 118*, 119, 120 #Fall 99
- HUM 103 #Spring 07

4G **Interdisciplinary, Social and Behavioral Sciences**
- GBST 101
- PSY 104
- SOC 104 #Fall 05, 155 #Fall 08
- SPCH 110 #Spring 06

4H **Political Science, Government and Legal Institutions**
- POLS 101, 103, 104

4I **Psychology**
- PSY 101, 112, 113, 117, 118

4J **Sociology and Criminology**
- SOC 101, 102, 110, 120, 160 #Fall 08

### Area 5  Physical and Biological Sciences [7] {2}(1 lab required)

5A **Physical Science {1}**
- ASTR 100
- CHEM 120, 150, 151
- ENVS 102 #Fall 02
- GEOG 101
- GEOL 100, 114, 131 #Fall 02, 141 #Fall 02
- PHSC 111*, 112*
- PHYS 100, 110*, 141*, 142*, 161*, 162*, 163*

5B **Biological Science {1}**
- ANTH 101, 110 #Spring 06
- BIOL 100*, 120, 124, 125, 132, 135, 150, 154, 155
- ENVS 101 #Fall 02

### Area 6  (University of California only) Proficiency in a language other than English or

**ASL 120**
- FRCH 101
- ITAL 101 #Fall 96
- SPAN 101, 121

**NOTE:** *
- means there may be a unit limitation
- means it transfers as a lab/activity/practice course
[] means a minimum number of units is required
{} means a minimum number of courses is required
# can use if taken indicated semester or later

**CSU Graduation Requirement in U.S. History and American Institutions**

Not part of IGETC; may be completed prior to transfer, six units, one course in political science (POLS 101 or 103) and one course in history (HIST 107* or 108* or 118*). Courses used to meet this requirement may be used to satisfy requirements for IGETC.

*Indicates that transfer credit may be limited by either UC or CSU. Please consult with a counselor for more information.
Admission from Community Colleges

Students who were eligible for admission to the California State University based upon their high school grade point average and SAT or ACT scores may be eligible to transfer with less than 60 college semester units (lower division transfer). However, the student must have maintained at least a C average in all college work and must be in good academic standing. Some campuses of the CSU system will not accept lower division transfer students. Check with a University Transfer Center counselor to determine available options.

Students who were not eligible for admission from high school must complete 60 transferable college semester units with a 2.0 average. Students who meet these minimum standards, while eligible for admission to a CSU campus, may not be accepted into a specific major or department. In the case of impacted majors and/or campuses, other selection criteria are also used.

Allan Hancock College courses that are numbered from 100 to 199 are accepted by the California State University system as transferable and students may transfer up to 70 community college semester units. In the Announcements of Courses section of this catalog, courses that are transferable to the California State University system are identified. Units that a student completed at a four-year college will be evaluated separately by the CSU campus.

California State University General Education Certification Breadth Requirements

Since 1981, the California State University (CSU) has required that a minimum of 48 semester units of general education courses be completed before a baccalaureate degree would be awarded. Up to 39 of these units may be certified by a community college.

In order to facilitate the transfer of Allan Hancock College students who plan to attend a campus of the California State University system, our certification of general education breadth requirements may include previously completed courses from other institutions as well as courses completed in residence.

Courses completed at other campuses of the CSU or at California community colleges must be certified in accordance with the pattern of the source institution. It is the student’s responsibility to provide: a) an official copy of his or her external transcript(s); and b) a dated general education certification pattern from the source institution which coincides with the term or terms in which such courses were completed.

Courses that have been completed at a regionally accredited institution other than a California community college or CSU will be included only under the following circumstances:

1. the student provides an official transcript, catalog description(s) and, if required, dated course outline(s);

2. the course is determined to be equivalent to a course in Allan Hancock College's CSU general education pattern through the pass-along process, and the student completed the course with a C grade or better.

Unit and subject matter credit for Advanced Placement (AP) exams will be included in the California State University certification of general education requirements in accordance with the CSU Chancellor’s Office policy. Students wishing to use units awarded for AP should check with the Counseling Department or the University Transfer Center.

Generally, the evaluation and certification of general education requirements is done only once. In those cases where, for some reason, a revision is needed, the student may be required to pay a fee of $10 for the service.

A maximum of 39 units in general education may be certified by Allan Hancock College.

A minimum of nine additional units in upper-division courses must be completed after transfer. A petition for general education certification is available at the Counseling Department or the University Transfer Center.

NOTE: No course may be counted in more than one area.

Transfer applicants must complete a minimum of 30 semester units including Area A and B4 on this pattern with a grade of C or better in each course (C- is not acceptable).

The 2011-2012 approved California State University General Education pattern is shown below.

**Area A English Language Communication and Critical Thinking [9]**

<table>
<thead>
<tr>
<th>A1</th>
<th>Oral Communication [3]</th>
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<tbody>
<tr>
<td></td>
<td>SPCH 101, 102, 106</td>
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<table>
<thead>
<tr>
<th>A2</th>
<th>Written Communication [3]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENGL 101</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>A3</th>
<th>Critical Thinking [3]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENGL 103</td>
</tr>
<tr>
<td></td>
<td>PHIL 112, 114</td>
</tr>
<tr>
<td></td>
<td>SPCH 106</td>
</tr>
</tbody>
</table>

**Area B Scientific Inquiry and Quantitative Reasoning [9] {1 lab}**

<table>
<thead>
<tr>
<th>B1</th>
<th>Physical Science {1}</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>ASTR 100</td>
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<tr>
<td></td>
<td>CHEM 110, 120, 150, 151</td>
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<td>ENVS 102</td>
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<td>GEOG 101</td>
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<td>GEOL 100, 114, 131, 141</td>
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<td></td>
<td>PHSC 111, 112</td>
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<td>PHYS 100, 110, 141, 142, 161, 162, 163</td>
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<table>
<thead>
<tr>
<th>B2</th>
<th>Life Science {1}</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>ANTH 101</td>
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<tr>
<td></td>
<td>BIOL 100, 120, 124, 125, 128, 132, 135, 150, 154, 155</td>
</tr>
<tr>
<td></td>
<td>ENVS 101</td>
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</tbody>
</table>

**B3 Laboratory Activity**

ANTH 110 or one of the courses in category B1 or B2 must be a lab

**B4 Mathematics/Quantitative Reasoning {1}**

<table>
<thead>
<tr>
<th>B4</th>
<th>Mathematics/Quantitative Reasoning {1}</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MATH 100, 105, 121, 123, 131, 135, 141, 181, 182, 183, 184</td>
</tr>
</tbody>
</table>
Area C Arts, Arts and Humanities [9] (at least one course in Arts and Humanities)

C1 Arts [3]
- DANC 101, 110, 120, 130
- DRMA 103, 104, 110, 111
- FCS 144
- FILM 101, 102, 107, 110, 115
- GRPH 110
- MMAC 115
- MUS 100, 101, 102, 104, 106, 110, 140
- PHTO 110

C2 Humanities [3]
- ASL 121, 138
- ENGL 102, 106, 130, 131, 132, 133, 135, 137, 138, 139, 143, 144, 145, 146, 148
- FILM 103
- FRCH 101, 102
- HIST 101, 102, 104, 105, 138
- HUM 101, 102, 104, 105
- ITAL 101, 102
- PHIL 101, 102, 105, 121, 122
- SPAN 101, 102, 103, 104, 112, 120, 121, 148
- SPCH 108

Area D Social, Social Sciences [9] (only 6 units in each discipline)

D0 Sociology and Criminology
- SOC 101, 102, 110, 120, 160

D1 Anthropology and Archaeology
- ANTH 102, 103

D2 Economics
- BUS 121, 141
- ECON 101, 102, 121, 141
- IS 141

D3 Ethnic Studies
- HIST 120
- SOC 120

D5 Geography
- GEOG 102, 103

D6 History
- HIST 103, 107, 108, 118, 119, 120, HUM 103

D7 Interdisciplinary Social or Behavioral Science
- GBST 101
- PSY 104
- SOC 104, 155
- SPCH 103, 110

D8 Political Science, Government and Legal Institutions
- POLS 101, 103, 104

D9 Psychology
- PSY 101, 112, 113, 115, 117, 118

NOTE: U.S. History and American Institutions Requirement

The California State University system will not award a degree until a student fulfills the U.S. History and American institutions requirement. Any of the course combinations listed below will satisfy this requirement.

1. HIST 107 and either POLS 101 or 103
2. HIST 108 and either POLS 101 or 103
3. HIST 118 and either POLS 101 or 103

NOTE: Some CSUs will not allow the units earned by fulfilling this requirement to be used in Area D; other CSUs will count the units in both areas. Check the CSU college catalog for a specific campus or with the University Transfer Center. Political Science courses used to meet this requirement must have been completed in a California institution.

Area E Lifelong Learning and Self Development [3]

- FCS 109, 112, 131
- FSN 109, 110, 112
- HED 100
- HUC 110
- LS 101
- PD 100, 101
- PSY 106, 112, 113, 117, 118
- SOC 106, 110

NOTE: No course may be counted in more than one area
___ means it transfers as a lab/activity/practice course
[ ] means a minimum number of units is required
{} means a minimum number of courses is required

STUDENT SUCCESS FACTS

Allan Hancock College each year assists thousands of students to reach a wide variety of educational goals, including completion of associate degrees, completion of certificate programs and successful transfer to four-year institutions.

Each semester, Allan Hancock College enrolls approximately 3,700 full-time students and another 7,600 part-time students. Approximately 1,800 graduate annually with associate in arts degrees, associate in science degrees or certificates of completion. In compliance with the Student-Right-to-Know (SRTK) and Campus Security Act of 1990 (Public Law 101-542), it is the policy of the Allan Hancock Joint Community College District to make available its completion and transfer rates to all current and prospective students.

In fall 2006, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a three-year period. Following are their completion and transfer rates. These rates do not represent the success rates of the entire student population at Allan Hancock College, nor do they account for student outcomes occurring after this three-year tracking period.

Based upon the cohort defined above, 33 percent attained a certificate or degree or became ‘transfer prepared’ during a three-year period, from fall 2006 to spring 2009. The state average is 25 percent. Students who are ‘transfer-prepared’ are defined as those who have completed 56 transferable units with a GPA of 2.0 or better. The college’s SRTK transfer rate was 16 percent. Students who received an AHC degree before transferring or who took more than three years to transfer are not included in this percentage.
degree before transferring or who took more than three years to transfer are not included in this percentage.

Keep in mind that SRTK rates, as stated above, are based upon about 7 percent of AHC’s student population, and while the cohort definition of tracking first-time, full-time, degree-seeking freshmen may be an appropriate measure for a four-year institution, it examines a much smaller portion of the Allan Hancock College student population.

The rates do not indicate the progress of part-time students; non-degree seeking students; students seeking career refresher courses and professional certifications; and many other student groups.

The college educates many more university transfer students, but not within the narrowly-defined timeline of this study. Others are not counted because they earned a degree before transferring or transferred to a private university not participating in the national program for data collection.

A more meaningful measure of transfer success is the acceptance rate Allan Hancock College students experience at universities. This is the percentage of students who are accepted at their university of choice, compared to the number that applies. For example, in fall 2008, as in the previous eight out of 11 years, Allan Hancock College students achieved the highest transfer acceptance rate to Cal Poly, San Luis Obispo, than students from all other Central Coast community colleges.
GRADUATION REQUIREMENTS FOR AN ASSOCIATE DEGREE

Allan Hancock College offers four types of associate degrees. In addition to the associate in arts (AA) and associate in science (AS) degrees, Allan Hancock College as of fall 2011 offers associate in arts for transfer (AA-T) and associate in science for transfer (AS-T) degrees.

AA-T/AS-T Degrees
The associate in arts for transfer (AA-T) and associate in science for transfer (AS-T) degrees are intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not guaranteed to a particular campus or major. These degrees may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

The associate transfer degrees (AA-T or AS-T) require the completion and certification of the California State University General Education (CSU GE) or the Inter-segmental General Education Transfer Curriculum (IGETC) pattern as well as the specific associate for transfer (AA-T or AS-T) major degree requirements. Students petitioning for the associate transfer degrees require completion of all of the Allan Hancock College graduation requirements except the following: the Health and Wellness, or Multicultural/Gender Studies or Allan Hancock College General Education requirements. These students should work with a counselor to identify major degree coursework that can be utilized to fulfill both the CSU GE or the IGETC transfer general education pattern and the specific associate for transfer major degree requirements.

AA/AS Degrees
The associate in arts (AA) degree is designed for the student desiring a lower-division preparation experience in order to transfer to a four-year public or private university or college. The associate in science (AS) degree is designed for the occupationally-oriented student and provides training within specific occupational areas. In some areas of study the associate in science (AS) degree may also provide lower-division preparation experience for transfer to a four-year university or college.

The associate in arts (AA) and associate in science (AS) degrees require the completion of all Allan Hancock College graduation requirements and specified major degree requirements. Students planning to transfer to a four-year institution and desire an associate degree (AA or AS), but who are not completing an associate transfer degree (AA-T or AS-T) will also have to complete all the Allan Hancock College graduation requirements and specific major degree requirements. Transfer students should refer to the "Transfer Information" section in this catalog.

All students who desire the associate in arts (AA) or association in science (AS) degree and have satisfied the graduation requirements listed below must petition for the appropriate associate degree even though they may be planning to transfer to a four-year institution.

Students who are planning to transfer to the California State University system and complete an associate transfer degree must petition for the appropriate associate in arts for transfer (AA-T) or associate in science for transfer (AS-T) degree to be eligible for the CSU admissions priority status associated with the completion of an associate transfer degree.

NOTE: Petition for graduation deadlines are published on Allan Hancock College’s website in the “At a Glance Class Schedule”

An associate degree will be awarded when the following requirements have been met:

1. A MINIMUM OF 60 UNITS have been completed satisfactorily. A maximum of 12 units of workshop and no more than 16 units of P graded courses can be applied toward an AA/AS degree. Only 100 and 300 level courses will apply to the degree.

2. A GRADE POINT AVERAGE OF 2.0 or better has been earned for all college work attempted.

3. A PETITION FOR GRADUATION has been filed in the Admissions and Records office by the published deadline.

4. A MINIMUM OF 12 UNITS toward the degree have been completed at Allan Hancock College (Title 5, Section 55802).

5. A MINIMUM OF 2 COURSES IN HEALTH AND WELLNESS (3 Units)
(Not required for Associate in Art for Transfer (AA-T) or Associate in Science for Transfer (AS-T) Degrees.)

Select one course from each of the following areas:

PHYSICAL ACTIVITY:
Dance (any activity course)
Physical Education (any activity course)

HEALTH EDUCATION or FIRST AID SAFETY:
Emergency Medical Services 102
Family and Consumer Science 109
Food, Science and Nutrition 109
Health Education 100
Human Services 126

Completion of the following academy and nursing courses will fulfill the requirement:
Law Enforcement 320 or 322, Emergency Medical Services 301, Fire Technology 307, Nursing 318, 328 & 338.

Exemption is allowed for the physical activity area for a disability.

Students must file a “Request for Course Substitution or Waiver” form.

6. COMPETENCY IN READING, IN WRITTEN EXPRESSION, AND IN MATHEMATICS has been demonstrated.

Students will demonstrate competence in reading by completing the general education requirements (below).

Students will demonstrate competence in written expression by completing English 100 (grade C or higher) or English 101 (grade C or higher).
NOTE: Students who plan to transfer to a four-year institution should demonstrate competence in written expression by completing English 101 rather than English 100.

Students will demonstrate competence in mathematics by meeting any one of the following standards:

A. Pass one of the following courses with a C or better: Math 321, Math 331, Math 333/334 or any 100-level math course of at least three units.

B. Receive a math placement recommendation for any 100-level math course based on the current Allan Hancock START process.

A MINIMUM OF THREE UNITS IN MULTICULTURAL/GENDER STUDIES have been completed.

(Not required for Associate in Art for Transfer (AA-T) or Associate in Science for Transfer (AS-T) Degrees.)

The purpose of the Multicultural/Gender Studies graduation requirement is to promote our students’ awareness about, their understanding and appreciation of, and their respect for underrepresented groups and ethnic minorities. Courses that are designated as fulfilling this requirement are designed to help students link their personal experiences and their education to broader cultural perspectives, to expand their awareness of their own cultural heritage, and to encourage in them the skills of cultural competence which can foster the meaningful communication and connection needed in global heterogeneous societies.

Courses that meet all or part the Multicultural/Gender Studies Requirement:

Anthropology 102, 105
Art 101, 105, 106
Business 107, 141
Dance 101
Drama 103
Early Childhood Studies 116, 117
Economics 141
English 105, 139, 148
Family and Consumer Sciences 131, 134
Film 101, 102, 103
Food Science and Nutrition 134
Geography 102, 103
Global Studies 101, 141
History 101, 102, 103, 120
Human Services 107, 113
Humanities 101, 102, 103
Music 104, 105, 106
Nursing 101*
Philosophy 121
Psychology 120
Sociology 102, 110, 120, 122
Spanish 148
Speech 110

* This is a 2 unit course and will only partially fulfill the requirement

8. MAJOR: A MINIMUM of 18 UNITS has been completed in an AA, AS, AA-T, AS-T degree major.

See the degree sheets in counseling or consult the appropriate page in this catalog for specific degree requirements. A minimum of 25 percent of the units required in the major must be completed at Allan Hancock College. A grade of C or better is necessary in each course used to complete the major. Courses taken on a pass/no-pass basis cannot be used to meet requirements for degrees or certificates.

GENERAL EDUCATION: A MINIMUM OF 21 SEMESTER UNITS OF GENERAL EDUCATION have been completed, three units in each of the categories listed below.

(Not required for Associate in Art for Transfer (AA-T) or Associate in Science for Transfer (AS-T) Degrees.)

General education is a pattern of courses designed to develop in students a breadth of knowledge and allow students to gain command of subject areas and methods of inquiry that characterize the liberally educated person. Through general education, students expand their understanding of the physical world and the complex interrelationships of individuals and groups within their social environments; understand the modes of inquiry of the major disciplines; deepen appreciation of their artistic and cultural heritage, and become aware of other cultures and times; strengthen their ability to communicate, reason, and critically evaluate information both orally and in writing; acquire a positive attitude toward learning, and develop self-understanding. As a result, they are better able to recognize, understand, and act upon the complex personal, social, scientific, and political issues that confront them.

Students are permitted to use up to six (6) units to satisfy both GE and major requirements thus receiving subject credit in the major and having to select 18 or 15 units of general education from the five GE categories.

CATEGORY 1, NATURAL SCIENCES (3 units)

Students completing courses in this category will:

- understand and build upon complex issues and discover the connections and correlations among ideas to advance toward a valid independent conclusion.
- identify and analyze real or potential problems and develop, evaluate, and test possible solutions and hypotheses using the scientific method where appropriate.
- formulate ideas and concepts in addition to using those of others.
- use college-level mathematical concepts and methods, where appropriate, to understand, analyze, and explain issues in quantitative terms.
- apply their knowledge and skills to new and varied situations.

Anthropology 101, 110 (when taken in conjunction with 101)
Astronomy 100
Biology 100, 120, 124, 132, 135
Chemistry 110, 120
Electronics 100
Environmental Studies 101, 102
Food Science and Nutrition 110
Geography 101
Geology 100, 114, 131, 141
Physical Science 111, 112
Physics 100
CATEGORY 2, HUMAN INSTITUTIONS (6 units)

A. Social Science (3 units)

Students completing courses in this category will:
- understand and build upon complex issues and discover the connections and correlations among ideas to advance toward a valid independent conclusion.
- identify and analyze real or potential problems and develop, evaluate, and test possible solutions and hypotheses using the scientific method where appropriate.
- find and evaluate information by selection and using appropriate research methods and tools.
- develop individual responsibility, personal integrity, and respect for diverse people and culture.
- understand ethical issues that will enhance their capacity for making sound judgments and decisions.

Administration of Justice 101
Anthropology 102, 103, 105
Business 121, 141
Economics 101, 102, 121, 141
English 105
Geography 102, 103
Global Studies 141
Political Science 101, 104
Psychology 101
Sociology 101, 102, 120, 122, 155, 160
Speech 110

B. American History or Government (3 units)

In addition to those listed in Category 2A students completing courses in this category will also:
- take personal responsibility for being informed, ethical and active citizens of their community, their nation, and their world.

History 107, 108, 118, 119
Political Science 101, 103

CATEGORY 3, HUMANITIES (3 units)

Students completing courses in this category will:
- communicate effectively in many different situations involving diverse people and viewpoints.
- understand and build upon complex issues and discover the connections and correlations among ideas to advance toward a valid independent conclusion.
- apply their knowledge and skills to new and varied situations.
- find and evaluate information by selecting and using appropriate research methods and tools
- produce or respond to artistic and creative expression.

Art 101, 103, 104, 105
Dance 101, 110, 120, 130
Drama 103, 110, 111
English 102, 106, 130, 131, 132, 133, 135, 138, 139, 144, 145, 146, 148
Family and Consumer Sciences 144
Film 101, 102, 103, 110

CATEGORY 4, LANGUAGE AND RATIONALITY (6 units)

A. Written Composition (3 units)

Students completing courses in this category will:
- communicate effectively in many different situations, involving diverse people and viewpoints.
- listen actively and analyze the substance of others' comments.
- read effectively and analytically.
- find and evaluate information by selecting and using appropriate research methods and tools.

English 100 (grade C or higher) or English 101 (grade C or higher)

B. Communication and Analytical Thinking (3 units)

Students completing courses in this category will:
- think logically and critically in solving problems; explaining conclusions; and evaluating, supporting, or critiquing the thinking of others.
- identify and analyze real or potential problems and develop, evaluate, and test possible solutions and hypotheses.
- communicate in an understandable and organized fashion to explain their ideas, express their feelings, or support conclusions.

Computer Business Information Systems 101, 112
Computer Science 102, 111
English 103, 104
Math 100, 105, 123, 135, 181, 321
Philosophy 112, 114
Speech 101, 102, 106

CATEGORY 5, LIVING SKILLS (3 units)

Students completing courses in this category will:
- exhibit habits of intellectual exploration, personal responsibility and well being.
- work with diverse people including those with different cultural and linguistic backgrounds and different physical abilities.
- interact with individuals and within groups with integrity and awareness of others' opinions, feelings and values.
- participate effectively in teams to make decisions and seek consensus.

French 101, 102
History 101, 102, 103, 104, 105, 120, 138
Humanities 101, 102, 103, 104, 105
Italian 101, 102
Latin 101
Multimedia Arts and Communication 101 and Multimedia Arts and Communication 102
Music 100, 101, 102, 104, 106
Philosophy 101, 102, 105, 121, 122
Photo 110
Sign Language 138
Spanish 101, 102, 103, 104, 105, 112, 121, 148
Speech 108
PETITIONING PROCEDURES FOR THE ASSOCIATE DEGREE

1. All students must petition to receive a degree. Petitions for graduation are available at the counseling office, the Vandenberg AFB and Lompoc Valley Centers. The starting date for petitions for graduation is the first day of classes; closing dates for filing petitions for graduation are listed in the college calendar, schedule of classes, and on the college Web site.

2. All students petitioning for the associate’s degree must first see a counselor for a preliminary requirement check. The petition must have the signature of a counselor before it will be accepted for final evaluation by the admissions and records office.

3. All course requirements must be completed on or before the final day of classes for the semester in which the student petitions.

4. Official copies of all transcripts from other colleges attended must be on file in the Allan Hancock College counseling office before a petition for graduation can be evaluated. External courses, grades, and units used to meet requirements for the associate in arts or the associate in science degree must be from an accredited college/university.

5. Students are notified in writing of their graduation status by the admissions and records office.

Students who do not satisfy the requirements for the degree for which they have applied must submit a new petition during a later filing period.

THE CERTIFICATE PROGRAM

Allan Hancock College offers two types of certificate programs, Certificate of Achievement and Certificate of Accomplishment. A Certificate of Achievement has been approved by the state and will be posted on the student’s transcript. A Certificate of Accomplishment will be posted on to the student’s permanent record, but not on the student’s transcript. Certificate programs include only those courses that have a direct bearing upon specialized occupational competencies. For this reason there is no general education requirement in a certificate program.

See Programs of Study for certificates offered by Allan Hancock College.

Petitioning Procedures

1. The student must petition to receive the certificate. Petitions are obtained in the admissions and records office.

2. All students petitioning for a certificate must first see a counselor for a preliminary requirement check. The petition must have the signature of a counselor before it will be accepted for final evaluation.

3. All required courses must have been completed by the end of the semester in which the student petitions.

4. A grade of C or better is necessary in all required courses.

5. A minimum of 25 percent of the units required for the certificate must be completed at Allan Hancock College.

6. Official copies of all transcripts from other colleges attended must be on file in the Allan Hancock College counseling office.

7. Petitions are obtained in the admissions and records office.

PROFICIENCY VERIFICATION

A verification of a proficiency may be issued to a student to validate the performance of a specific skill at a prescribed level. Students should contact the department chair for further information as to what verifications are available and the specific requirements in each area.

CATALOG RIGHTS

Students are eligible to graduate under the catalog in effect at the time they meet all graduation requirements. Students must apply within three years from the date all requirements are satisfied:

1. Students who maintain continuous enrollment, i.e., those who attend at least one semester each calendar year (January-December), at Allan Hancock College or continuing at another accredited institution within the United States are eligible to graduate under the catalog in effect at the time they first enrolled at Allan Hancock College.

2. Students who do not maintain continuous enrollment are eligible to graduate under the catalog in effect the date the student last reentered Allan Hancock College (if the student maintains continuous enrollment thereafter) or the student may follow the first paragraph above.

Exceptions to the above policy may be made by the director, Admissions and Records, for medical reasons or for military service.

PROGRAMS OF STUDY

Programs of study leading to the associate in arts degree, or the associate in science degree, or certificate follow in alphabetical order. Programs, which lead to transfer to universities and four-year colleges, do not necessarily reflect the transfer requirements of specific schools. If a student wishes to receive an associate degree in a specific discipline, the requirements as set forth must be met; however, in planning a program for transfer, students should note that transfer requirements for both the major
and general education vary widely. It is recommended that the students review the catalog of the school of transfer and consult with a counselor of Allan Hancock College in planning transfer objectives.

TECH PREP - Tech Prep is a carefully designed curriculum that engages students in a four-year program (two years of high school and two years of community college) to gain the knowledge, skills and values required for technical careers. A Tech Prep education (1) leads to an associate degree or certificate, (2) provides technical preparation, (3) builds student competence in mathematics, science, and communications through a sequential course of study, and (4) leads to placement in related employment or additional training. Tech Prep programs and courses are identified throughout the descriptions of degrees and announcement of courses.
Instructional Programs

Public safety training courses include various hazardous materials response scenarios.
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### DEGREES & CERTIFICATES

#### A.A. A.S. Certificate

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<td><strong>Law Enforcement Training</strong></td>
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<td>Basic Law Enforcement Academy</td>
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<td><strong>Liberal Arts – Non-Transfer Option</strong></td>
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<td>Arts &amp; Humanities</td>
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<td><strong>Liberal Arts –Transfer Option</strong></td>
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<td><strong>Liberal Studies – Elementary</strong></td>
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<td>Teacher Preparation</td>
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<td><strong>Machine Technology</strong></td>
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<td><strong>Mathematics</strong></td>
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<td><strong>Nursing</strong></td>
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<td>Certified Nursing Assistant</td>
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<tr>
<td>Certified Home Health Aide</td>
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<td>EKG/Monitor Observer</td>
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<td>Restorative Aide</td>
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<td><strong>Paralegal Studies</strong></td>
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<td><strong>Physical Education</strong></td>
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<td><strong>Physics</strong></td>
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<td><strong>Recreation Management</strong></td>
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<td><strong>Social Science</strong></td>
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<td><strong>Sound Technology</strong></td>
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<td><strong>Spanish</strong></td>
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<tr>
<td><strong>Speech Communication</strong></td>
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<td>Communication Skills for Public Safety</td>
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<td>Communication Skills for the Business</td>
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<td>Communication Skills for the Professional Speaker</td>
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<td>UC/CSU Transfer Studies (Math, Engineering &amp; Science majors)</td>
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<td><strong>Welding Technology</strong></td>
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<td><strong>Wildland Fire Technology</strong></td>
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<tr>
<td>Operations</td>
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<tr>
<td>Prevention, Investigation, Prescribed Burning</td>
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<tr>
<td>Logistics, Finance, Planning</td>
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</tbody>
</table>

Students who complete an A.A. or A.S. degree will fulfill general education requirements and outcomes as well as program outcomes listed with the individual programs of study on the following pages.
ACCOUNTING (A.S.)

All businesses need accounting information to measure their profitability, solvency and liquidity. Accounting is known as the language of business and without it business would be unable to communicate with lenders, stakeholders and government authorities. The program focuses on traditional financial, managerial and tax accounting principles and techniques. Coursework is sequenced in building blocks of knowledge and skills with an emphasis on learning by doing.

The associate degree in accounting prepares students for entry-level positions and professional advancement in public, private and governmental accounting. Entry-level employment opportunities consist of positions such as accounts payable/receivable clerk, payroll accountant, accounting paraprofessional, tax examiner assistant and junior cost accountant. This is a Tech Prep program (see “Programs of Study” on page 56 for information about Tech Prep).

The graduate of the AS program in accounting will:

- Be able to record common business transactions in a manual and computerized accounting information system.
- Be able to prepare and read a set of financial statements consisting of an income statement, balance sheet, statement of stockholders’ equity and statement of cash flows in a manual and computerized accounting information system.
- Be able to perform common managerial/cost accounting analyses to help managers make better decisions.
- Be able to prepare a basic individual and small business tax return and assist an individual or small business owner with common tax issues.
- Be proficient in the use of computer applications such as QuickBooks, Excel and Access.

A major of 27 units is required for the associate in science degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 130</td>
<td>Financial Accounting</td>
<td>3</td>
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<tr>
<td>ACCT 140</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 150</td>
<td>Introduction to Accounting Information Systems</td>
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</tr>
<tr>
<td>ACCT 160</td>
<td>Introduction to Financial Statement Analysis</td>
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<tr>
<td>ACCT 170</td>
<td>Introduction to Tax Accounting</td>
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<td>BUS 101</td>
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</tr>
<tr>
<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Required core courses (15 units):

- ACCT 130 Financial Accounting 3
- ACCT 140 Managerial Accounting 3
- ACCT 150 Introduction to Accounting Information Systems 3
- ACCT 160 Introduction to Financial Statement Analysis 3
- ACCT 170 Introduction to Tax Accounting 3

The graduate of the AS program in accounting will:

- Demonstrate an understanding of the yearly cycle of the vineyard.
- Demonstrate the ability to make sound viticultural decisions during the entire year to ensure quality fruit and healthy vines.
- Describe and demonstrate proficiency in pruning, irrigation, canopy management, pest and disease control, fruit quality assessment and determining time of optimal harvest.
- Demonstrate an understanding of the yearly cycle in the winery.
- Describe and demonstrate a proficiency in crushing, fermenting and pressing.

All businesses need accounting information to measure their profitability, solvency and liquidity. Accounting is known as the language of business and without it business would be unable to communicate with lenders, stakeholders and government authorities. The program focuses on traditional financial, managerial and tax accounting principles and techniques. Coursework is sequenced in building blocks of knowledge and skills with an emphasis on learning by doing.

The associate degree in accounting prepares students for entry-level positions and professional advancement in public, private and governmental accounting. Entry-level employment opportunities consist of positions such as accounts payable/receivable clerk, payroll accountant, accounting paraprofessional, tax examiner assistant and junior cost accountant. This is a Tech Prep program (see “Programs of Study” on page 56 for information about Tech Prep).

The graduate of the AS program in accounting will:

- Be able to record common business transactions in a manual and computerized accounting information system.
- Be able to prepare and read a set of financial statements consisting of an income statement, balance sheet, statement of stockholders’ equity and statement of cash flows in a manual and computerized accounting information system.
- Be able to perform common managerial/cost accounting analyses to help managers make better decisions.
- Be able to prepare a basic individual and small business tax return and assist an individual or small business owner with common tax issues.
- Be proficient in the use of computer applications such as QuickBooks, Excel and Access.

A major of 27 units is required for the associate in science degree.

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<td>ACCT 160</td>
<td>Introduction to Financial Statement Analysis</td>
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<tr>
<td>ACCT 170</td>
<td>Introduction to Tax Accounting</td>
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<td>BUS 101</td>
<td>Introduction to Business</td>
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<tr>
<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
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</tr>
</tbody>
</table>

Required core courses (15 units):

- ACCT 130 Financial Accounting 3
- ACCT 140 Managerial Accounting 3
- ACCT 150 Introduction to Accounting Information Systems 3
- ACCT 160 Introduction to Financial Statement Analysis 3
- ACCT 170 Introduction to Tax Accounting 3

ACCOUNTING – Bookkeeping (Certificate of Accomplishment)

Completion of this certificate will indicate to employers that these students have demonstrated proficiency in bookkeeping, payroll tax, and computer applications used in the accounting process such as QuickBooks (computer accounting software), Excel (spreadsheet software), and Access (database software.)

Twelve units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>ACCT 317</td>
<td>Bookkeeping 1</td>
<td>3</td>
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<tr>
<td>ACCT 318</td>
<td>Bookkeeping 2</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 327</td>
<td>Payroll Tax Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 150</td>
<td>Introduction to Accounting Information Systems</td>
<td>3</td>
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</table>

ADMINISTRATION OF JUSTICE (A.S.)

This degree provides an educational foundation for persons aspiring to careers in law enforcement, probation, parole, court administration, corporate security or custodial corrections. Students intending to transfer to a four-year institution should discuss their programs with a counselor.

A major of 27 units is required for the associate in science degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>AJ 101</td>
<td>Administration of Justice System</td>
<td>3</td>
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<tr>
<td>AJ 102</td>
<td>Principles and Procedures of the Justice System</td>
<td>3</td>
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<tr>
<td>AJ 103</td>
<td>Concepts of Criminal Law</td>
<td>3</td>
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<tr>
<td>AJ 104</td>
<td>Legal Aspects of Evidence</td>
<td>3</td>
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<tr>
<td>AJ 105</td>
<td>Community Relations</td>
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Plus a minimum of 12 units selected from Administration of Justice elective courses. Students are encouraged to discuss additional course choices with a member of the department and to focus their work upon their area of interest.

AGRIBUSINESS: ENOLOGY/VITICULTURE (A.A.)

The associate degree program is designed to prepare students for upper division course work leading to a baccalaureate degree in enology or viticulture. The curriculum prepares students for entry-level and advanced positions in the wine industry including wine production, quality assurance and control, cellar supervision, vineyard management, research and grape production.

The graduate of the AA program in enology/viticulture will:

- Demonstrate an understanding of the yearly cycle of the vineyard.
- Demonstrate the ability to make sound viticultural decisions during the entire year to ensure quality fruit and healthy vines.
- Describe and demonstrate proficiency in pruning, irrigation, canopy management, pest and disease control, fruit quality assessment and determining time of optimal harvest.
- Demonstrate an understanding of the yearly cycle in the winery.
- Describe and demonstrate a proficiency in crushing, fermenting and pressing.
**DEGREES & CERTIFICATES 64**

- Demonstrate a proficiency in chemically analyzing juice, must and wines and be able to interpret the data in order to take the appropriate action.
- Make appropriate additions to maintain wine stability and to determine the optimum time to bottle and release the wine.
- Make sound enological decisions during the course of the entire year (or years to bottling) to ensure wine quality and a clean, safe winery workplace.

A major of 31 units is required for the associate in arts degree.

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<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>AG 101</td>
<td>Introduction to Winemaking</td>
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<tr>
<td>AG 102</td>
<td>Introduction to Viticulture</td>
<td>3</td>
</tr>
<tr>
<td>AG 103</td>
<td>Sensory Evaluation of Wine</td>
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<td>AG 104</td>
<td>Advanced Sensory Evaluation of Wine</td>
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<tr>
<td>CHEM 140</td>
<td>Introductory Organic Chemistry</td>
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<tr>
<td>CHEM 150</td>
<td>General Chemistry 1</td>
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</table>

Plus a minimum of 10 units selected from the following:

AG 106 Winery Organization 3  
AG 135 Grapevine Physiology 1  
AG 151 Winery Equipment 2  
BIOL 150 Cellular Biology 5  
CA 120 Principles of Food Preparation 4  
CHEM 151 General Chemistry 2 5  
CS 102 Introduction to Computing with HTML 3  
CS 111 Fundamentals of Programming 1 4  
FSN 110 Nutrition Science 3  
GIS/GIS 111 Global Positioning Systems 1  
GIS/GIS 112 Fundamentals of Mapping with GIS 3  
MATH 135 Calculus with Applications 4  
MATH 181 Calculus 1 5  
MATH 182 Calculus 2 5  
PHYS 141 General Physics 1 4  
PHYS 142 General Physics 2 4  
PSY 118 Human Development-Lifespan 3

Recommended electives:

AG 360 Advances in Viticulture .5  
AG 361 Advances in Enology .5

**AGRICBUSINESS: WINE MARKETING AND SALES (A.S. & Certificate of Achievement)**

Designed for students preparing for or advancing in careers involving selling wine to wholesalers, retailers, brokers, restaurants and the public. Those seeking to enter or upgrade careers in the wine industry in marketing, public relations and promotion will find this program suited to their needs.

The graduate of the AS or certificate program in wine marketing and sales will:
- Identify and suggest marketing and selling strategies in the wine and grape industry.
- Analyze promotion and distribution possibilities in the business.
- Evaluate benchmarking and brand name recognition alternatives.
- Prepare a marketing plan including production, labeling, advertising, compliance, financial control and supply options.

A major of 29.5 units is required for the associate in science degree and certificate.

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<thead>
<tr>
<th>COURSE NUMBER</th>
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<tbody>
<tr>
<td>AG 101</td>
<td>Introduction to Winemaking</td>
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<td>AG 102</td>
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<tr>
<td>AG 103</td>
<td>Sensory Evaluation of Wine</td>
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<tr>
<td>AG 104</td>
<td>Advanced Sensory Evaluation of Wine</td>
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<td>AG 105</td>
<td>Wine Marketing and Sales</td>
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<tr>
<td>BUS 102</td>
<td>Marketing</td>
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<tr>
<td>AG 106</td>
<td>Winery Organization</td>
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<tr>
<td>AG 149</td>
<td>Cooperative Work Experience: Occupation</td>
<td>1-8</td>
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<tr>
<td>AG 301</td>
<td>Pairing Wine and Food</td>
<td>.5</td>
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<tr>
<td>AG 302</td>
<td>Advanced Pairing Wine and Food</td>
<td>.5</td>
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<tr>
<td>AG 303</td>
<td>Epicurean Wine and Food</td>
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<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
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<tr>
<td>BUS 103</td>
<td>Advertising</td>
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<tr>
<td>BUS 104</td>
<td>Business Organization and Management</td>
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</table>

Recommended electives:

ACCT 130 Financial Accounting 3  
AG 151 Winery Equipment 2  
AG 360 Advances in Viticulture .5  
AG 361 Advances in Enology .5  
BUS 160 Business Communications 3  
CBIS 101 Computer Concepts and Applications 3  
or  
CS 102 Introduction to Computing with HTML 3

**AGRICBUSINESS: VITICULTURE (A.S. & Certificate of Achievement)**

Designed for students preparing for or advancing in careers such as vineyard management, pest management, fertilizer sales or irrigation management.

The graduate of the AS or certificate program in viticulture will:
- Relate basic ideas and concepts in viticulture.
- Assess and relate the biology and ecophysiology of vines and grape berries.
- Describe the vineyard year and grapevines’ yearly cycle of growth.
- Describe vineyard implementation.
- Identify common vineyard problems and suggest solutions.
- List winegrape varieties, rootstocks and describe trellis types; along with the pruning, training and canopy management techniques that are appropriate.

A major of 32 units is required for the associate in science degree and certificate.

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<tr>
<th>COURSE NUMBER</th>
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<td>Introduction to Winemaking</td>
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<td>AG 102</td>
<td>Introduction to Viticulture</td>
<td>3</td>
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<tr>
<td>AG 120</td>
<td>Viticulture Operations 1</td>
<td>3</td>
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<tr>
<td>AG 121</td>
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<td>AG 122</td>
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<td>AG 125</td>
<td>Soils and Plant Nutrition</td>
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<td>AG 130</td>
<td>Integrated Pest Management for Grapes</td>
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<td>BUS 102</td>
<td>Marketing</td>
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<td>AG/GIS 111</td>
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<td>AG/GIS 112</td>
<td>Fundamentals of Mapping with GIS</td>
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<td>AG 135</td>
<td>Grapevine Physiology</td>
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<td>AG 140</td>
<td>Viticulture Operations 4</td>
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<td>AG 141</td>
<td>Viticulture Operations 5</td>
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<td>AG 142</td>
<td>Viticulture Operations 6</td>
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<tr>
<td>AG 149</td>
<td>Cooperative Work Experience: Occupational</td>
<td>1-8</td>
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<tr>
<td>AG 151</td>
<td>Winery Equipment</td>
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<td>BIOL 154</td>
<td>General Botany</td>
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<tr>
<td>BUS 104</td>
<td>Business Organization and Management</td>
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<td>BUS 160</td>
<td>Business Communications</td>
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<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
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<tr>
<td>CS 102</td>
<td>Introduction to Computing with HTML</td>
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</tr>
<tr>
<td>CHEM 150</td>
<td>General Chemistry 1</td>
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Recommended elective:

AG 360 Advances in Viticulture .5
### AGRIBUSINESS - PAIRING WINE AND FOOD (Certificate of Accomplishment)

Designed to train students to evaluate the sensory components of different styles of wines from several grape-growing regions and to plan and prepare specific dishes that complement each wine.

The graduate of the certificate program in pairing wine and food will:
- Analyze and suggest appropriate and innovative food pairings to most common wines.
- Be able to prepare these foods and comment about the pairings possibilities.
- Identify characteristics of wine from different cultivars and regions.
- Evaluate the sensory components of different wines.

Three units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>AG 301</td>
<td>Pairing Wine and Food</td>
<td>.5</td>
</tr>
<tr>
<td>AG 302</td>
<td>Advanced Pairing Wine and Food</td>
<td>.5</td>
</tr>
<tr>
<td>AG 303</td>
<td>Epicurean Wine and Food</td>
<td>.5</td>
</tr>
<tr>
<td>AG 304</td>
<td>Dessert Wine and Food Pairing</td>
<td>.5</td>
</tr>
<tr>
<td>AG 305</td>
<td>Pairing the Wines and Foods of Provence</td>
<td>.5</td>
</tr>
<tr>
<td>AG 306</td>
<td>Pairing the Wines and Foods of Tuscany</td>
<td>.5</td>
</tr>
</tbody>
</table>

### AGRIBUSINESS - GEOGRAPHIC INFORMATION SYSTEMS (GIS) WITH AGRICULTURAL APPLICATIONS (Certificate of Accomplishment)

Designed to train students to critically analyze field data using spatial analysis and integrate databases to generate working maps that will aid in making agricultural decisions.

Nine units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG /GIS 111</td>
<td>Global Positioning Systems (GPS)</td>
<td>1</td>
</tr>
<tr>
<td>AG /GIS 112</td>
<td>Fundamentals of Mapping with GIS</td>
<td>3</td>
</tr>
<tr>
<td>AG 120</td>
<td>Vineyard Operations 1</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AG 121</td>
<td>Vineyard Operations 2</td>
</tr>
<tr>
<td>AG 149</td>
<td>Cooperative Work Experience: Occupational</td>
<td>1-8</td>
</tr>
<tr>
<td>(related to GIS and Agriculture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AG 189</td>
<td>Independent Projects in Agribusiness</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Recommended elective:
- AG 360 Advances in Viticulture .5

### APPLIED DESIGN/MEDIA: ANIMATION (A.S.)

The animation program provides a comprehensive foundation in the traditional and digital artistic skills that are at the center of the animation, visual effects and video gaming industries. Our program allows students to build their own emphasis in either traditional 2D or computerized 3D animation through their choice of electives. The A.S. degree in animation prepares students for transfer to four-year animation programs and entry-level employment in the creative industries.

The graduate of the AS program in animation will:
- Generate multiple characters and stories in response to a specific content.
- Design and model characters and environments for animation.
- Plan and storyboard animated sequences for traditional and digital formats.
- Use animation techniques and principles expressively in creating short animated films.

A major of 34 units is required for the associate in science degree.
The graduate of the AS program in multimedia will:

- Produce a website portfolio or DVD reel that showcases individual multimedia competencies.
- Plan and budget a project for presentation to a client.
- Demonstrate an understanding and command of "visual literacy" by being able to discuss and interpret what a photo means, how it means, who made it and why they made it.
- Create a portfolio that explores a personal, cultural or documentary idea and which embodies a unique personal vision or execute a client-generated assignment.

A major of 35 units is required for the associate in science degree.

### APPLIED DESIGN/MEDIA - PHOTOGRAPHY (A.S.)

The light- and lens-formed image has supplanted the written word as the dominant medium of communication in the 21st century. An AS degree in photography is the doorway to a career in commercial, editorial or artistic photography.

The graduate of the AS program in photography will:

- Analyze and explain diverse multimedia products in terms of design, techniques and point of view.
- Employ a range of software programs to create and manipulate digital imagery, audio, animation and video.
- Create a portfolio that explores a personal, cultural or documentary idea and which embodies a unique personal vision or execute a client-generated assignment.
- Design, build, test and present websites, animations, motion graphics sequences and interactive disks.
- Display a mastery of the hardware, materials and processes of traditional wet photography, color photography, non-silver photography and digital hardware and software.

### COURSE

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 107</td>
<td>Computer Fine Art</td>
<td>3</td>
</tr>
<tr>
<td>ART/MMAC 115</td>
<td>Introduction to Animation</td>
<td>3</td>
</tr>
<tr>
<td>FILM 111</td>
<td>Intermediate Film and Video Production</td>
<td>4</td>
</tr>
<tr>
<td>FILM/M/MMAC 117</td>
<td>3D Computer Animation 1</td>
<td>3</td>
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<tr>
<td>FILM/M/MMAC 118</td>
<td>3D Computer Animation 2</td>
<td>3</td>
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<tr>
<td>FILM/M/MMAC 125</td>
<td>Computer Video Editing</td>
<td>2</td>
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<tr>
<td>FILM/MMAC 126</td>
<td>Motion Graphics for Multimedia and Film</td>
<td>3</td>
</tr>
<tr>
<td>FILM/MMAC 127</td>
<td>DVD Design and Production</td>
<td>3</td>
</tr>
<tr>
<td>MMAC 114</td>
<td>Dynamic Internet Design</td>
<td>3</td>
</tr>
<tr>
<td>GRPH/MMAC 116</td>
<td>Digital Presentation and Portfolio Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GRPH/MMAC 118</td>
<td>Introduction to Web Graphics</td>
<td>3</td>
</tr>
<tr>
<td>GRPH/MMAC 130</td>
<td>3D Modeling for Product Design</td>
<td>3</td>
</tr>
<tr>
<td>MUS 116</td>
<td>Sound Production Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUS 117</td>
<td>MIDI Technology and Its Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

The multimedia program provides a comprehensive foundation in the electronic arts at the core of our increasingly audio-visual culture. Our project-based multimedia training fosters artistic and technical skills in the digital media including imaging, video, audio, animation and interactive interface design. Multimedia students can build their own emphasis in Web design, video post-production or animation through their choice of electives. The A.S. degree in multimedia prepares students for transfer to four-year programs in the digital media and for entry-level employment in the creative industries.

The graduate of the AS program in multimedia will:

- Analyze and explain diverse multimedia products in terms of design, techniques and point of view.
- Employ a range of software programs to create and manipulate digital imagery, audio, animation and video.
- Create a portfolio that explores a personal, cultural or documentary idea and which embodies a unique personal vision or execute a client-generated assignment.
- Design, build, test and present websites, animations, motion graphics sequences and interactive disks.
- Display a mastery of the hardware, materials and processes of traditional wet photography, color photography, non-silver photography and digital hardware and software.

### COURSE

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 106</td>
<td>Art of the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>ART 112</td>
<td>Design Color Theory</td>
<td>3</td>
</tr>
<tr>
<td>FILM 101</td>
<td>Film as Art and Communication</td>
<td>3</td>
</tr>
<tr>
<td>MMAC 126</td>
<td>Motion Graphics for Multimedia and Film</td>
<td>3</td>
</tr>
<tr>
<td>GRPH/MMAC 118</td>
<td>Introduction to Web Graphics</td>
<td>3</td>
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<tr>
<td>GRPH 130</td>
<td>3D Modeling for Product Design</td>
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<tr>
<td>GRPH 160AB</td>
<td>Multimedia Lab</td>
<td>2</td>
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<tr>
<td>GRPH 189</td>
<td>Independent Projects</td>
<td>1-3</td>
</tr>
<tr>
<td>MMAC 114</td>
<td>Dynamic Internet Design</td>
<td>3</td>
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</tbody>
</table>
ART 101  Art Appreciation  3
ART 104  Art History Survey  3
ART 106  Art of the 20th Century  3
ART 107  Computer Fine Art  3
ART 110  Design 1  3
FILM 101  Film as Art and Communication  3
FILM 102  Hollywood and the American Film  3
FILM 111  Intermediate Motion Picture and Video Production  4
GRPH 111  Electronic Imagery Lab  1
GRPH 112  Basic Electronic Imagery  3

APPLIED DESIGN/MEDIA - WEBSITE DESIGN
(Certificate of Accomplishment)
The certificate in website design provides a specific skill set enabling the creation of visually rich websites for a wide range of purposes. The certificate is ideal for students wishing to bring additional competencies to their workplace; to enhance their employability; or to seek entrepreneurial opportunities.

The graduate of the certificate program in website design will:
- Analyze and explain diverse websites in terms of design, techniques and point of view.
- Employ a range of software programs to create and manipulate Web-appropriate digital imagery and animation.
- Design, build, test and present websites for a range of communication needs.
- Plan and budget a website project for presentation to a client.
- Produce a website portfolio that showcases individual Web competencies.

Fifteen units is required for the certificate.

COURSE NUMBER TITLE UNITS

Required core courses (12 units):

CS 102  Introduction to Computing with HTML  3
GRPH 118  Introduction to Web Graphics  3
MMAC 112  Web Page Design  3
MMAC 114  Dynamic Internet Design  3

Plus a minimum of 3 units selected from the following:

ART 107  Computer Fine Art  3
ART/GRPH 108  Design 1 on the Computer  3
GRPH 111  Electronic Imagery Lab  1
GRPH 112  Basic Electronic Imagery  3
PHOTO 170  Digital Photography  2
PHOTO 171  Digital Photography Lab  1

ARCHITECTURAL DRAFTING
(A.S. & Certificate of Accomplishment)

An associate in science degree in architectural drafting prepares students to articulate into a professional program at a four-year institution, which offers a baccalaureate degree or equips students for an entry-level position in the building industry such as drafter, inspector or materials technician.

The graduate of the AS or certificate program in architectural drafting will:
- Develop graphic communication skills including orthographic, paraline, and mechanical perspectives with shades and shadows.
- Create three dimensional representations using both electronic and manual methods.
- Produce a complete set of residential plans that may be submitted for plan check approval.
- Develop familiarity with components, materials, types, and methods of building construction; terminology as applied to codes, foundations, concrete, light frame wood, heavy timber, soils, and the structural elements.
- Develop the ability to use computer-aided design software to generate three-dimensional models and design presentations.

The graduate of the certificate program will:
- Become familiar with the latest building code requirements and be able to make job site judgments based on the code.

A major of 30 units is required for the associate in science degree. Courses marked with an asterisk (*) are required for the certificate.

COURSE NUMBER TITLE UNITS

Required core courses (23 units):

ARCH 111*  Architectural Graphics  3
ARCH 112*  Architectural Delineation  3
ARCH 121*  Architectural Drawing 1  4
ARCH 122*  Architectural Drawing 2  4
ARCH 131*  Materials of Construction 1  3
ARCH/ET 160  Digital Tools in Architecture  3
ART 110  Design 1  3

Plus a minimum of 7 units selected from the following:

ARCH 320  Uniform Building Code  3
ART 113  Three Dimensional Design  3
ART 127  Painting in Watercolor 1  3
ART 128  Painting in Watercolor 2  3
ART 103  Art History Survey (Ancient to Medieval)  3
ART 104  Art History Survey (Renaissance to Modern)  3
ART 105  Art History Survey (Art of Mexico)  3
ET 111  Technical Drawing 1  3
ENGR 152  Statics  3
ENGR 161  Materials Science  3
ENGR 162  Materials Science Lab  1
GEOL 100  Physical Geology  4

ART (A.A.)

Art and design have permeated human experience for thousands of years. The fine artist and the designer both require knowledge of the same visual principles. An art major is trained in visual perception, design principles and manual skills necessary for personal expression or a commercial career in various art media.

The graduate of the AA program in art will:
- Participate in a variety of visual arts through the application of developed skills in visual perception, analysis, design principles and technical abilities and demonstrate these in a portfolio work.

A major of 27-28 units is required for the associate in arts degree.

COURSE NUMBER TITLE UNITS

Required core courses (27-28 units):

ART 103  Art History Survey (Ancient to Medieval)  3
ART 104  Art History Survey (Renaissance to Modern)  3
ART 106  Art of the 20th Century  3
ART 107  Computer Fine Art  3
ART 108  Design 1 on the Computer  3
ART 110  Design 1  3
ART 112  Design Color Theory  3
ART 113  Three Dimensional Design  3
ART 160  Ceramics 1  3
ART 164  Sculpture 1  3
ART 120  Drawing 1  3
ART 121  Drawing 2  3
ART 122  Life Drawing 1  3
FILM 110  Intro to Motion Picture & Video Production  4
PHOTO 110  Basic Photography  3
GRAPHI 110  Introduction to Graphic Design  3
### AUTO BODY TECHNOLOGY (A.S.)

The auto body curriculum is designed to prepare students for entry level career opportunities in the auto collision industry involving auto body metal repair, frame measurement and alignment, welding, automotive electrical and refinishing techniques found in the collision industry. Emphasis is also given to safety, ethics and work habits needed to succeed in the auto collision trade.

The graduate of the AS program in auto body technology will:
- Develop good work and safety habits while in the auto body workplace.
- Develop work skills involving plastic filler application, metal finishing, frame alignment, MIG welding and structural repair.
- Apply vehicle service information skills to evaluate major collision damage and implement repair procedures.
- Develop the ability to refinish vehicles using modern urethane paints and primers.
- Develop occupational skills including team work, work habits, ethics and communication skills.

A major of 23 units is required for the associate in science degree.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105</td>
<td>Art History Survey: Art of Mexico</td>
<td>3</td>
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</tr>
<tr>
<td>ART 124</td>
<td>Mixed Media</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 125</td>
<td>Painting in Acrylics 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 127</td>
<td>Painting in Watercolor</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 129</td>
<td>Painting in Oils</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 131</td>
<td>Portraits</td>
<td>1</td>
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<tr>
<td>ART 132</td>
<td>Landscape</td>
<td>1.5</td>
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<tr>
<td>ART 159</td>
<td>Institutes in Art</td>
<td>.5-3</td>
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<tr>
<td>ART 160</td>
<td>Ceramics 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 164</td>
<td>Sculpture 1</td>
<td>3</td>
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<tr>
<td>ART 199</td>
<td>Special Topics in Art</td>
<td>.5-3</td>
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<tr>
<td>MMAC 115</td>
<td>Introduction to Animation</td>
<td>3</td>
<td></td>
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<tr>
<td>GRPH 116</td>
<td>Digital Presentation and Portfolio Techniques</td>
<td>3</td>
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<tr>
<td>PHTO 120</td>
<td>Materials and Processes</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### AUTO BODY METAL (Certificate of Achievement)

The graduate of the certificate program in auto body metal will:
- Practice good work and safety habits while in the auto body workplace.
- Identify commonly used auto collision repair tools and equipment.
- Analyze types of sheet metal damage and the direction of impact to perform needed repair procedures involving frame and structural damage.
- Recognize and properly use paint equipment and materials in the automotive painting industry.
- Develop occupational skills including team work, work habits, ethics and communication skills.

Eighteen units constitute the certificate.

<table>
<thead>
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<th>COURSE</th>
<th>NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB 351</td>
<td>Auto Body - Metal</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AB 353</td>
<td>Auto Body - Repair</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AB 356</td>
<td>Automotive Painting Techniques</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AB 359</td>
<td>Automotive Refinishing</td>
<td>3</td>
<td></td>
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<tr>
<td>AB 360</td>
<td>Collision and Painting Repairs</td>
<td>5</td>
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</tr>
<tr>
<td>AT 303</td>
<td>Automotive Electricity</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### AUTO BODY REFINISHING (Certificate of Accomplishment)

The graduate of the certificate program in auto body refinishing will:
- Apply good work and safety habits while in the auto body workplace.
- Determine processes and materials needed to refinish vehicle surfaces in accordance with collision industry standards.
- Demonstrate commercially acceptable skills and speed in refinishing vehicles.
- Understand the basic theory of auto body metal repair and plastic filler application.
- Develop occupational skills including team work, work habits, ethics and communication skills.

Fifteen units constitute the certificate.

<table>
<thead>
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<th>COURSE</th>
<th>NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>AB 351</td>
<td>Auto Body - Metal</td>
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<tr>
<td>AB 354</td>
<td>Selected Auto Body Paint Projects</td>
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<tr>
<td>AB 356</td>
<td>Automotive Painting Techniques</td>
<td>3</td>
<td></td>
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<tr>
<td>AB 359</td>
<td>Automotive Refinishing</td>
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<tr>
<td>AB 360</td>
<td>Collision and Painting Repairs</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

### AUTOMOTIVE TECHNOLOGY - AUTO SERVICE MANAGEMENT (A.S.)

Designed to prepare the student to enter the automotive service profession in a position such as a service manager, service writer or parts manager.

The graduate of the AS program in auto service management will:
- Demonstrate an understanding of the importance of customer satisfaction and the role it plays in the success of a business in the automotive service industry.
- Demonstrate an understanding of the various business models in the automotive service industry.
- Demonstrate the ability to effectively communicate verbally and in writing with customers, co-workers and the employer.
- Demonstrate the ability to diagnose problems with the various systems of the automobile using systematic procedures and logical methods.
- Demonstrate the ability to identify what technical specifications are needed, where to find them and how to use them in the course of performing their duties.
- Demonstrate an understanding of the legal and ethical issues encountered in the automotive repair workplace and make responsible decisions.
- Demonstrate the required mechanical skills and the ability to use the trade tools at a level of proficiency that is expected in the profession.
- Demonstrate the use of the proper procedure for dealing with hazards encountered in the automotive repair work place.
- Demonstrate the ability to perform all of the NATEF tasks in each of the core courses in the option or certificate.

A major of 24 units is required for the associate in science degree.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB 351</td>
<td>Auto Body - Metal</td>
<td>3</td>
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</tr>
<tr>
<td>AB 353</td>
<td>Auto Body - Repair</td>
<td>3</td>
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<tr>
<td>AB 356</td>
<td>Automotive Refinishing</td>
<td>3</td>
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<td>AB 360</td>
<td>Collision and Painting Repairs</td>
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<tr>
<td>COURSE NUMBER</td>
<td>TITLE</td>
<td>UNITS</td>
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</tr>
<tr>
<td>AT 133</td>
<td>Automotive Engine Rebuilding</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>AT 303</td>
<td>Automotive Electricity</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>AT 314</td>
<td>Suspension and Alignment</td>
<td>4</td>
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</tr>
<tr>
<td>AT 323</td>
<td>Power Trains</td>
<td>5</td>
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</tr>
<tr>
<td>BUS 104</td>
<td>Business Organization &amp; Management</td>
<td>3</td>
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<tr>
<td>BUS 107</td>
<td>Human Relations in Business</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
DEGREES & CERTIFICATES 70  DEGREES & CERTIFICATES

AUTOMOTIVE TECHNOLOGY - HIGH-TECH GENERAL MECHANIC - TUNE-UP EMISSION CONTROL SPECIALIST (Certificate of Achievement)

Designed to prepare the student to enter the automotive service profession as a general repair technician with an emphasis on tune-up and emissions repair.

The graduate of the certificate program in high-tech general mechanic: tune-up emission control specialist will:
- Demonstrate an understanding of the evolving technology in the automotive control systems.
- Demonstrate the ability to communicate effectively with customers, co-workers and the employer.
- Demonstrate the ability to diagnose problems with the various systems of the automobile using systematic procedures and logical methods.
- Demonstrate the ability to identify what technical specifications are needed, where to find them and how to use them in the course of performing their duties.
- Demonstrate the required mechanical skills and the ability to use the trade tools at a level of proficiency that is expected in the profession.
- Demonstrate the use of the proper procedure for dealing with hazards encountered in the automotive repair work place.
- Demonstrate the ability to perform all of the NATEF tasks in each of the core courses in the option or certificate.

Thirty-seven units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 133</td>
<td>Automotive Engine Rebuilding</td>
<td>5</td>
</tr>
<tr>
<td>AT 303</td>
<td>Automotive Electricity</td>
<td>4</td>
</tr>
<tr>
<td>AT 306</td>
<td>Automotive Air Conditioning System</td>
<td>1</td>
</tr>
<tr>
<td>AT 313</td>
<td>Automotive Brakes</td>
<td>4</td>
</tr>
<tr>
<td>AT 323</td>
<td>Power Trains</td>
<td>5</td>
</tr>
<tr>
<td>AT 341</td>
<td>Automotive Carburetion/Injection</td>
<td>5</td>
</tr>
<tr>
<td>AT 343</td>
<td>Automotive Tune-Up and Engine Analysis</td>
<td>5</td>
</tr>
<tr>
<td>AT 344</td>
<td>Automotive Emission Control</td>
<td>4</td>
</tr>
</tbody>
</table>

AUTOMOTIVE TECHNOLOGY - HIGH-TECH GENERAL MECHANIC - ENGINE, POWER TRAINS SPECIALIST (Certificate of Achievement)

Designed to prepare the student to enter the automotive service profession as a general repair technician with an emphasis on engine and drive train repair.

The graduate of the certificate program in high-tech general mechanic: engine, power trains specialist will:
- Demonstrate an understanding of the automotive drive train systems.
- Demonstrate the ability to communicate effectively with customers, co-workers and the employer.
- Demonstrate the ability to diagnose problems with the various systems of the automobile using systematic procedures and logical methods.
- Demonstrate the ability to identify what technical specifications are needed, where to find them and how to use them in the course of performing their duties.
- Demonstrate the required mechanical skills and the ability to use the trade tools at a level of proficiency that is expected in the profession.
- Demonstrate the use of the proper procedure for dealing with hazards encountered in the automotive repair work place.
- Demonstrate the ability to perform all of the NATEF tasks in each of the core courses in the option or certificate.

Thirty-five units constitute the certificate.

<table>
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<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>AT 133</td>
<td>Automotive Engine Rebuilding</td>
<td>5</td>
</tr>
<tr>
<td>AT 303</td>
<td>Automotive Electricity</td>
<td>4</td>
</tr>
<tr>
<td>AT 313</td>
<td>Automotive Brakes</td>
<td>4</td>
</tr>
<tr>
<td>AT 323</td>
<td>Power Trains</td>
<td>5</td>
</tr>
<tr>
<td>AT 324</td>
<td>Automatic Transmissions</td>
<td>5</td>
</tr>
<tr>
<td>AT 334</td>
<td>Automotive Machining</td>
<td>5</td>
</tr>
<tr>
<td>AT 343</td>
<td>Automotive Tune-Up and Engine Analysis</td>
<td>5</td>
</tr>
<tr>
<td>AT 399</td>
<td>Topics in-ASE Certification Prep</td>
<td>2</td>
</tr>
</tbody>
</table>

BIOLOGY (A.A.)

The associate degree in biology prepares students to move into a curriculum in a four-year institution leading to a baccalaureate degree in such areas as botany, zoology, conservation and teaching. The biologist with a baccalaureate degree is prepared to enter graduate or professional programs of specialized study such as medicine, dentistry, medical technology, osteopathy and veterinary medicine.

The graduate of the AA program in biology will:
- Demonstrate proficient research skills in data gathering and analysis.
- Demonstrate effective communication using the language, concepts and models of biology.
- Demonstrate effective content knowledge of biodiversity.

A major of 23 units is required for the associate in arts degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 150</td>
<td>Cellular Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 154</td>
<td>General Botany</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 155</td>
<td>General Zoology</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 150</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 151</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 141</td>
<td>General Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 142</td>
<td>General Physics 2</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 132</td>
<td>Marine Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 145</td>
<td>Desert Ecology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 179</td>
<td>Workshops in Biology</td>
<td>1-3</td>
</tr>
<tr>
<td>BIOL 189</td>
<td>Independent Projects in Biology</td>
<td>1-3</td>
</tr>
<tr>
<td>BIOL 199</td>
<td>Special Topics in Biology</td>
<td>1-3</td>
</tr>
</tbody>
</table>

BUSINESS ADMINISTRATION (A.A.)

The associate degree program in business administration prepares students to begin upper-division work leading to a baccalaureate degree in business or business administration. Students will recall and apply significant business principles, produce work-based learning projects and demonstrate the ability to follow oral and written instructions.

The graduate of the AA program in business administration will:
- Recall significant business administration issues, theories and applications relevant to subsequent upper-division coursework.
- Apply business administration principles to produce work-based learning projects related to upper-division coursework.
- Demonstrate the ability to follow instructions on assignments and class activities.

A major of 25 units is required for the associate in arts degree.
 coursework can be applied to the associate of science degree program in business. Students will recall and apply significant business principles, produce work-based learning projects and demonstrate the ability to follow oral and written instructions.

The graduate of the AS program in business marketing will:
- Recall significant business issues, theories and applications relevant to entry-level management positions and subsequent upper-division coursework.
- Apply business principles to produce work-based learning projects related to entry-level management positions.
- Demonstrate the ability to follow instructions on assignments and class activities.

A major of 33 units is required for the associate in science degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required core courses (25 units):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 130</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 140</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110</td>
<td>Business Law: Contracts and Sales</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Principles of Economics: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Principles of Economics: Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 123</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Recommended electives:
- BUS/ECON 141 Global Economics 3
- MATH 135 Calculus With Applications 4

BUSINESS - MANAGEMENT (A.S.)
The associate of science degree program in business prepares students for entry-level management positions. Courses also provide a foundation for upper division courses in a baccalaureate degree program in Business. Students will recall and apply significant business principles, produce work-based learning projects and demonstrate the ability to follow oral and written instructions.

The graduate of the AS program in business management will:
- Recall significant business issues, theories and applications relevant to entry-level management positions and subsequent upper-division coursework.
- Apply business principles to produce work-based learning projects related to entry-level management positions.
- Demonstrate the ability to follow instructions on assignments and class activities.

A major of 33 units is required for the associate in science degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required core courses (24 units):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 100</td>
<td>Survey of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACCT 130 Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 104</td>
<td>Business Organization and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 107</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110</td>
<td>Business Law: Contracts and Sales</td>
<td>3</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUS 302</td>
<td>Essentials of Management</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CBIS 141 Microsoft Excel - Comprehensive</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CBOT 333 Business Desktop Publishing</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 9 units selected from the following:
- BUS 102 Marketing 3
- BUS 106 Small Business Management 3
- BUS 111 Internet Marketing 3
- BUS/ECON 121 Business Economics 3
- ECON 102 Principles of Economics: Micro-Economics 3
- BUS 140 Survey of International Business 3
- BUS 149 Cooperative Work Experience: Occupational (related to Business Management) 1-4

BUSINESS - MARKETING (A.S.)
The associate of science degree program in business prepares students for entry-level management positions. Courses also provide a foundation for upper division courses in a baccalaureate degree program in Business. Students will recall and apply significant business principles, produce work-based learning projects, and demonstrate the ability to follow oral and written instructions.

The graduate of the AS program in business marketing will:
- Recall significant business issues, theories and applications relevant to entry-level management positions and subsequent upper-division coursework.
- Apply business principles to produce work-based learning projects related to entry-level management positions.
- Demonstrate the ability to follow instructions on assignments and class activities.

A major of 33 units is required for the associate in science degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
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<tr>
<td>Required core courses (27 units):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Survey of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACCT 130 Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 102</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 104</td>
<td>Business Organization and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 107</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110</td>
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<td>BUS 160</td>
<td>Business Communications</td>
<td>3</td>
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<tr>
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</tr>
<tr>
<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CBIS 142 Microsoft Access - Comprehensive</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CBOT 333 Business Desktop Publishing</td>
<td>3</td>
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</table>

Twenty-four units constitute the business certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
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<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required core courses (24 units):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 102</td>
<td>Marketing</td>
<td>3</td>
</tr>
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<td>3</td>
</tr>
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<tr>
<td>or</td>
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</tr>
<tr>
<td>or</td>
<td>CBOT 333 Business Desktop Publishing</td>
<td>3</td>
</tr>
</tbody>
</table>
BUSINESS - HUMAN RESOURCE MANAGEMENT
(Certificate of Accomplishment)
The certificate of accomplishment in human resource management prepares students to develop and sustain a world-class workforce. Students will recall and apply significant business principles, produce work-based learning projects and demonstrate the ability to follow oral and written instructions.

The graduate of the certificate program in human resources management will:
- Recall significant human resource management issues, theories and applications.
- Apply human resource management principles to produce work-based learning projects.
- Demonstrate the ability to follow instructions on assignments and class activities.

Three units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 363</td>
<td>Management: Conflict</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 369</td>
<td>Employment Law</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 370</td>
<td>Ethics and Integrity</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 371</td>
<td>Sexual Harassment Law/Prevention</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 372</td>
<td>Workplace Diversity</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 396</td>
<td>Performance Measurement</td>
<td>.5</td>
</tr>
</tbody>
</table>

Complete all 6 courses above or

BUS 391 Human Resource Management: Series 3

BUSINESS LAW (Certificate of Accomplishment)
The certificate of accomplishment in business law will prepare students to apply legal concepts to day-to-day business situations and to interact with legal counsel. Students will recall and apply significant business principles, produce work-based learning projects and demonstrate the ability to follow oral and written instructions.

The graduate of the certificate program in business law will:
- Recall significant legal issues, theories and applications.
- Apply legal principles to produce work-based learning projects.
- Demonstrate the ability to follow instructions on assignments and class activities.

Three units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 360</td>
<td>Introduction to Supervision</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 362</td>
<td>Management: People Skills</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 363</td>
<td>Management: Conflict</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 365</td>
<td>Managing Teams</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 367</td>
<td>Managing Change</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 377</td>
<td>Managing Service Quality</td>
<td>.5</td>
</tr>
</tbody>
</table>

Complete all 6 courses above or

BUS 302 Essentials of Management 3

BUSINESS - SUPERVISORY MANAGEMENT
(Certificate of Accomplishment)
The certificate of accomplishment in supervisory management will prepare students to plan, organize, influence and control the day-to-day operations of a business enterprise. The course will focus on techniques to work with and through people to meet organizational goals. Students will recall and apply significant business principles, produce work-based learning projects and demonstrate the ability to follow oral and written instructions.

The graduate of the certificate program in supervisory management will:
- Recall significant business issues, theories and applications.
- Apply business principles to produce work-based learning projects.
- Demonstrate the ability to follow instructions on assignments and class activities.

Three units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 360</td>
<td>Introduction to Supervision</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 362</td>
<td>Management: People Skills</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 363</td>
<td>Management: Conflict</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 365</td>
<td>Managing Teams</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 367</td>
<td>Managing Change</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 377</td>
<td>Managing Service Quality</td>
<td>.5</td>
</tr>
</tbody>
</table>

Complete all 6 courses above or

BUS 302 Essentials of Management 3

BUSINESS - EXECUTIVE LEADERSHIP
(Certificate of Accomplishment)
The certificate of accomplishment in executive leadership builds competencies in planning and organizing tasks, empowering people and maintaining a productive organizational culture. Students will recall and apply significant business principles, produce work-based learning projects and demonstrate the ability to follow oral and written instructions.

The graduate of the certificate program in executive leadership will:
- Recall significant executive leadership issues, theories and applications.
- Apply executive leadership principles to produce work-based learning projects.
- Demonstrate the ability to follow instructions on assignments and class activities.

Three units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 356</td>
<td>Managing Organizations</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 361</td>
<td>Your Leadership Style</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 362</td>
<td>Management: People Skills</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 367</td>
<td>Managing Change</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 376</td>
<td>Strategic Planning</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 397</td>
<td>Executive Leadership</td>
<td>.5</td>
</tr>
</tbody>
</table>

Complete all 6 courses above or

BUS 387 Executive Leadership: Series 3

BUSINESS - CUSTOMER SERVICE
(Certificate of Accomplishment)
The certificate of accomplishment in customer service provides techniques for creating positive customer relationships. Students will recall and apply significant business principles, produce work-based learning projects and demonstrate the ability to follow oral and written instructions.

The graduate of the certificate program in customer service will:
- Recall significant customer service issues, theories and applications.
- Apply customer service principles to produce work-based learning projects.
- Demonstrate the ability to follow instructions on assignments and class activities.

Three units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 356</td>
<td>Managing Organizations</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 361</td>
<td>Your Leadership Style</td>
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<tr>
<td>BUS 362</td>
<td>Management: People Skills</td>
<td>.5</td>
</tr>
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<td>BUS 367</td>
<td>Managing Change</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 376</td>
<td>Strategic Planning</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 397</td>
<td>Executive Leadership</td>
<td>.5</td>
</tr>
</tbody>
</table>

Complete all 6 courses above or

BUS 387 Executive Leadership: Series 3
BUSINESS - SALES AND MARKETING
(Certificate of Accomplishment)
The certificate of accomplishment in sales and marketing prepares students to sell and market a product or service. Students will recall and apply significant business principles, produce work-based learning projects and demonstrate the ability to follow oral and written instructions.

The graduate of the certificate program in sales and marketing will:
- Recall significant sales and marketing issues, theories and applications.
- Apply sales and marketing principles to produce work-based learning projects.
- Demonstrate the ability to follow instructions on assignments and class activities.

Three units constitute the certificate.

COURSE
NUMBER TITLE UNITS
BUS 357 Management: Listening .5
BUS 366 Promoting Small Business .5
BUS 378 Effective Sales Methods .5
BUS 380 Marketing Strategies .5
BUS 381 Entering Global Markets .5
BUS 382 Advertising and Public Relations Strategies .5

Complete all 6 courses above or
BUS 303 Sales and Marketing 3

CHEMISTRY (A.A.)
The associate degree program in chemistry prepares students to begin upper-division work leading to a baccalaureate degree in chemistry or chemical engineering. It also provides some of the support courses required for the baccalaureate degree.

The graduate of the AA program in chemistry will:
- Solve quantitative chemistry problems and demonstrate reasoning clearly and completely. Integrate multiple ideas in the problem solving process.
- Apply problem-solving skills related to the nature of matter, solutions, phase changes, chemical reactions, stoichiometry, energy transformations, atomic and molecular structure, quantum theory, chemical bonding, intermolecular forces, periodic properties, thermodynamics, kinetics, chemical equilibrium, acids and bases, electrochemistry and nuclear chemistry.
- Design, construct and interpret graphs accurately.
- Perform laboratory techniques correctly using appropriate safety procedures.

A major of 40 units is required for the associate in arts degree.

COURSE
NUMBER TITLE UNITS
CHEM 150 General Chemistry 1 5
CHEM 151 General Chemistry 2 5
MATH 181 Calculus 1 5
MATH 182 Calculus 2 5
MATH 183 Multivariable Calculus 5
PHYS 161 Engineering Physics 1 5
PHYS 162 Engineering Physics 2 5
PHYS 163 Engineering Physics 3 5

Recommended electives:
CHEM 140 Introduction to Organic Chemistry 4
COM SC 171 FORTRAN 3

COMPUTER BUSINESS INFORMATION SYSTEMS (A.S. & Certificate of Achievement)
If you enjoy using technology and helping others then a career in information technology may be for you. The Computer and Business Information Systems (CBIS) program is a comprehensive degree where you will learn business concepts along with needed technical skills to help support a company’s information systems’ needs. Other CBIS program options allow you to specialize in applications, Web development and software support. Discover the possibilities of a career in information technology. This is a Tech Prep program (see “Programs of Study” on page 56 for information about Tech Prep).

The graduate of the AS or certificate program in computer business information systems will:
- Understand the fundamentals of business and how they relate to information systems needs of a business.
- Use effective written and oral communication to support business information systems needs.
- Develop technical skills to analyze and solve problems both independently and in teams, using a variety of problem-solving approaches and selecting the appropriate software.
- Analyze/design/develop/deploy/maintain and manage business applications.

A major of 27 units is required for the associate in science degree and certificate.

COURSE
NUMBER TITLE UNITS
Required core courses (27 units)
ACCT 130 Financial Accounting 3
BUS 101 Introduction to Business 3
CBIS 101 Computer Concepts and Applications 3
CBIS 108 Networking and Administration 3
CBIS 112 Introduction to Programming 3
CBIS 141 Microsoft Excel - Comprehensive 3
CBIS 142 Microsoft Access - Comprehensive 3
CBIS 321 Internet Business Applications 3
EL105 PC Preventive Maintenance and Upgrading 3

Recommended electives:
BUS 102 Marketing 3
BUS 104 Business Organization and Management 3
BUS 106 Small Business Management 3
CBIS 399 Special Topics Courses .5-3
EL/CS 310 Introduction to Network Platforms, NOSS, Security, and Maintenance 4

COMPUTER BUSINESS INFORMATION SYSTEMS - COMPUTER BUSINESS OFFICE SOFTWARE (Certificate of Accomplishment)
This certificate is the foundation for students to learn the basics of computer system software and general office applications through a series of hands on coursework. The skills developed throughout the different courses will improve students’ productivity.

The graduate of the certificate program in computer business office software will:
- Illustrate knowledge by understanding and applying the correct computer terms and technology.
- Use templates or design/create/modify documents, spreadsheets, databases, and presentations for business and personal use.
- Create/modify/search/organize folders and files.
- Customize a computer by modifying the application and operating system software settings.
Five units constitute the certificate.

**COURSE NUMBER** | **TITLE** | **UNITS**
--- | --- | ---
CBIS 373 | Introduction to Windows | 1
CBIS 371 | Introduction to Excel | 1
CBIS 372 | Introduction to Access | 1
CBOT 360 | MS Word - Basics | 1
CBOT 361 | Introduction to MS PowerPoint | 1

**COMPUTER BUSINESS INFORMATION SYSTEMS - DATABASE ADMINISTRATION (Certificate of Accomplishment)**

This certificate provides comprehensive training for students who will develop and maintain databases in our changing business world.

The graduate of the certificate program in database administration will:

- Analyze the business database requirements, rules and policies.
- Practice and develop interpersonal skills to discuss and document the user's needs and present the database recommendations to the user.
- Utilize tools to manage the development and design of the database, such as Microsoft Visio and Microsoft Project.
- Work in groups to develop their interpersonal skills and more complex applications.
- Apply problem-solving and debugging techniques.
- Utilize software to build and manage relational databases, such as SQL Server (Structured Query Language), MySQL, Oracle, Access, or perhaps other Open Database Connectivity (ODBC) databases.
- Use Web programming languages, such as PHP (Hypertext Preprocessor) and ASP (Active Server Pages), to support dynamic database driven websites.
- Apply concepts to database security, backup and recovery for dependable business operations.

Seventeen and one-half units constitute the certificate.

**COURSE NUMBER** | **TITLE** | **UNITS**
--- | --- | ---
CBIS 142 | Microsoft Access-Comprehensive | 3
CBIS 189 | Independent Projects | 1
CBIS 327 | Building Business Websites | 3
CBIS 330 | Database Management Concepts | 3
CBIS 334 | Database Security and Auditing | 3
CBIS 336 | Web DB Programming-PHP/AP | 3
CBIS 343 | Applied Project Management 1 | 1.5

**COMPUTER BUSINESS INFORMATION SYSTEMS - INFORMATION ARCHITECTURE (Certificate of Accomplishment)**

This certificate provides comprehensive training for students who will plan, develop and manage business websites.

The graduate of the certificate program in information architecture will:

- Illustrate knowledge by understanding and applying the correct Internet and Web terms and technology.
- Use a variety of sources for reference materials (i.e., online help, vendor's websites, online discussion groups, etc.)
- Plan/design/develop marketing strategies for a small business website.
- Develop a project plan defining a calendar, tasks and needed resources.
- Plan/design/create/modify/manage website folders and files on a Web server.

Sixteen and a half units constitute the certificate.

**COURSE NUMBER** | **TITLE** | **UNITS**
--- | --- | ---
BUS 380 | Marketing Strategies | .5
CBIS 321 | Internet Business Applications | 3
CBIS 327 | Building Business Web Sites | 3

Plus a minimum of 10 units selected from the following:

- BUS 111 Internet Marketing | 3
- BUS 366 Promoting Small Business | .5
- BUS 377 Managing Service Quality | .5
- CBIS 315 Programming for the Web 1 | 1.5
- CBIS 343 Applied Project Management 1 | 1.5
- CBIS 372 Introduction to Access | 1
- COM SC 102 Introduction to Computing with HTML | 3
- MMAC 114 Dynamic Internet Design | 3

**COMPUTER BUSINESS INFORMATION SYSTEMS - OFFICE SOFTWARE SUPPORT (Certificate of Accomplishment)**

This certificate specializes in office applications. Students learn to manage projects from the design phase through implementation. The coursework also includes fundamentals of program management and computer programming.

The graduate of the certificate program in office systems analysis will:

- Illustrate knowledge by understanding and applying the correct computer terms and technology.
- Design/create MODIFY documents, spreadsheets and databases for business and personal use.
- Develop a project plan defining a calendar, tasks and needed resources.
- Develop interactive applications for business and personal needs.
- Use effective written and oral communication to support business information systems needs.

Thirteen and one-half units constitute the certificate.

**COURSE NUMBER** | **TITLE** | **UNITS**
--- | --- | ---
CBIS 101 | Computer Concepts and Applications | 3
CBIS 112 | Introduction to Programming | 3
CBIS 141 | Microsoft Excel - Comprehensive | 3
CBIS 142 | Microsoft Access - Comprehensive | 3
CBIS 343 | Applied Project Management 1 | 1.5

**COMPUTER BUSINESS INFORMATION SYSTEMS - OFFICE SYSTEMS ANALYSIS (Certificate of Accomplishment)**

This certificate specializes in office applications. Students learn to manage projects from the design phase through implementation. The coursework also includes fundamentals of program management and computer programming.

The graduate of the certificate program in office systems analysis will:

- Illustrate knowledge by understanding and applying the correct computer terms and technology.
- Design/create MODIFY documents, spreadsheets and databases for business and personal use.
- Develop a project plan defining a calendar, tasks and needed resources.
- Develop interactive applications for business and personal needs.
- Use effective written and oral communication to support business information systems needs.

Fifteen units constitute the certificate.

**COURSE NUMBER** | **TITLE** | **UNITS**
--- | --- | ---
CBIS 101 | Computer Concepts and Applications | 3
or
CBOT 132 | Advanced Word Processing | 3
CBIS 141 | Microsoft Excel - Comprehensive | 3
CBIS 142 | Microsoft Access - Comprehensive | 3
CBIS 321 Internet Business Applications | 3
CBIS/  
CBOT 337 Presentation Design-PowerPoint | 3
COMPUTER BUSINESS INFORMATION SYSTEMS - INFORMATION TECHNOLOGY FUNDAMENTALS
(Certificate of Accomplishment)
This certificate provides the basic computer skills that every student needs. The focus will be on understanding and using computer applications such as word processing, spreadsheets, database and presentation.

The graduate of the certificate program in information technology fundamentals will:
- Use a variety of sources for reference materials (i.e., online help, vendors’ websites, online discussion groups, tutorials.)
- Illustrate knowledge by understanding or applying the correct computer terms.
- Use templates or design/create/modify documents, spreadsheets, databases and presentations for business, personal and school needs.
- Recall/demonstrate appropriate processes to use in application programs.

Nine units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBIS 301</td>
<td>Computer Fundamentals 1</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 321</td>
<td>Internet Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 302</td>
<td>Computer Fundamentals 2</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CBIS 101 Computer Concepts and Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

COMPUTER BUSINESS INFORMATION SYSTEMS - SMALL BUSINESS WEBMASTER
(Certificate of Accomplishment)
This certificate provides basic training for students who will plan, develop and manage business websites.

The graduate of the certificate program in small business Webmaster will:
- Illustrate knowledge by understanding and applying the correct Internet and web terms and technology.
- Use a variety of sources for reference materials (i.e., online help, vendor’s websites, online discussion groups, etc.)
- Plan/design/create/modify/manage website folders and files on a Web server.

Ten units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBIS 321</td>
<td>Internet Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 327</td>
<td>Building Business Web Sites</td>
<td>3</td>
</tr>
</tbody>
</table>

Required core courses (6 units)

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 111</td>
<td>Internet Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 366</td>
<td>Promoting Small Business</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 377</td>
<td>Managing Service Quality</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 380</td>
<td>Marketing Strategies</td>
<td>.5</td>
</tr>
<tr>
<td>CBIS 315</td>
<td>Programming for the Web 1</td>
<td>1.5</td>
</tr>
<tr>
<td>CBIS 372</td>
<td>Introduction to Access</td>
<td>1</td>
</tr>
<tr>
<td>CS 102</td>
<td>Introduction to Computing with HTML</td>
<td>3</td>
</tr>
<tr>
<td>MMAC 114</td>
<td>Dynamic Internet Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 4 units selected from the following:

Required core courses (18 units):

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 160</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 371</td>
<td>Intro to Excel</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 131</td>
<td>Introduction to Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 132</td>
<td>Advanced Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 302</td>
<td>Records Management</td>
<td>2</td>
</tr>
<tr>
<td>CBOT 333</td>
<td>Business Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 334</td>
<td>Administrative Office Procedures</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 6 units selected from the following: (Strongly recommended: CBIS 141, CBIS 142, CBIS 373)

- ACCT 100 Survey of Accounting | 3
- or ACCT 130 Financial Accounting | 3
- or ACCT 317 Bookkeeping | 3
- ACCT 110 Accounting with Microcomputers | 3
- BUS 107 Human Relations in Business | 3
- BUS 149 Cooperative Work Experience: Vocational/Internship | 1-3
- (related to CBIS Administrative Assistant/Secretarial)

A major of 24 units is required for the associate in science degree and certificate.

COMPUTER BUSINESS OFFICE TECHNOLOGY - LEGAL SECRETARIAL
(A.S. & Certificate of Achievement)
Legal Secretarial is designed to provide training for specialized secretarial/administrative assistant careers in law offices and legal departments of businesses, real estate firms and civil service.

Training includes all phases of administrative/secretarial work with emphasis on business law and legal office procedures.

The graduate of the AS or certificate program in legal secretarial will:
- Recall significant legal office terminology.
- Create forms used in the legal office.
- Demonstrate the use of software applications to accomplish appropriate tasks.
- Analyze and solve problems related to legal office procedures and administrative operations.
- Communicate clearly and professionally.

A major of 28 units is required for the associate in science degree and certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 110</td>
<td>Business Law: Contracts and Sales</td>
<td>3</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 131</td>
<td>Introduction to Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 132</td>
<td>Advanced Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CBIS 301 Computer Fundamentals 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Required core courses (19 units):
CBOT 305 Legal Office Procedures 3
CBOT 334 Administrative Office Procedures 3
CBOT 336 Introduction to Internet Explorer 1

Plus a minimum of 9 units selected from the following: (Strongly recommended: CBIS 141, CBIS 142, CBIS 373)

ACCT 100 Survey of Accounting 3
or
ACCT 130 Financial Accounting 3
BUS 107 Human Relations in Business 3
BUS 149 Cooperative Work Experience: Occupational 1-3
(CBIS/CBOT/CBOT 132 Advanced Word Processing 3
CBOT 337 Presentation Design-PowerPoint 3
CBIS 373 Introduction to Windows 1
CBOT 302 Records Management 2
CBOT 333 Business Desktop Publishing 3
CBOT 362 Intro to MS Publisher 1

COMPUTER BUSINESS OFFICE TECHNOLOGY - WORD/INFORMATION PROCESSING
(A.S. & Certificate of Achievement)

Word/Information Processing is designed to provide specialized training for the development of the skills needed for those in management positions that want to enhance their technical office skills. Training includes administrative office procedures with emphasis on word processing, desktop publishing, and presentation graphics.

The graduate of the AS or certificate program in Word/Information processing will:
- Demonstrate the use of software applications to accomplish appropriate tasks.
- Apply proper administrative operations and procedures for business.
- Analyze and solve problems related to administrative operations.
- Communicate clearly and professionally.

A major of 24 units is required for the associate in science degree and certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBOT 131</td>
<td>Introduction to Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 132</td>
<td>Advanced Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 333</td>
<td>Business Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 334</td>
<td>Administrative Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 337</td>
<td>Presentation Design- PowerPoint</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 9 units selected from the following:

ACCT 101 Survey of Financial Accounting 3
or
ACCT 121 Financial Accounting 1 3
ACCT 110 Accounting with Microcomputers 3
BUS 101 Introduction to Business 3
BUS 160 Business Communications 3
BUS 149 Cooperative Work Experience: Occupational 1-3
(CBIS/CBOT 373 Introduction to Windows 1
CBOT 336 Introduction to Internet Explorer 1
CBOT 362 Intro to MS Publisher 1
ENGL 101 Freshman Composition: Exposition 3

COMPUTER BUSINESS OFFICE TECHNOLOGY - COMPUTER BUSINESS OFFICE SKILLS
(Certificate of Accomplishment)

Computer Business Office Skills is designed to provide the basic clerical and customer service skills needed to work in an office. Computer skills such as word processing and Internet browser software are emphasized along with customer service skills. This certificate contains five courses and is intended to allow students to move quickly into an office position.

The graduate of the certificate program in computer business office skills will:
- Demonstrate the use of word processing applications to accomplish appropriate tasks.
- Identify search engines.
- Apply correct usage of browser software and features.
- Communicate clearly and professionally.

Four units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 362</td>
<td>Management: People Skills</td>
<td>0.5</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 401</td>
<td>Management: Listening</td>
<td>0.5</td>
</tr>
<tr>
<td>BUS 377</td>
<td>Managing Service Quality</td>
<td>0.5</td>
</tr>
<tr>
<td>CBIS 373</td>
<td>Introduction to Windows</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 336</td>
<td>Introduction to Internet Explorer</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 360</td>
<td>MS Word Basics</td>
<td>1</td>
</tr>
</tbody>
</table>

COMPUTER BUSINESS OFFICE TECHNOLOGY - COMPUTER BUSINESS PRESENTATIONS AND PUBLISHING
(Certificate of Accomplishment)

Computer Business Presentations and Publishing is designed to provide training to develop presentation and publishing skills required in many business areas for training, sales and customer service jobs. Computer skills such as word processing, presentation software and desktop publishing are emphasized. Students will also receive training in advertising and public relations strategies.

The graduate of the certificate program in computer business presentations and publishing will:
- Describe the features used in presentation and desktop publishing software.
- Create graphic presentations and business publications using the appropriate software application.
- Identify advertising and public relation strategies.
- Communicate clearly and professionally.

Four and one-half units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 382</td>
<td>Advertising and Public Relations Strategies</td>
<td>0.5</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CBOT 336</td>
<td>Introduction to Internet Explorer</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 360</td>
<td>MS Word - Basics</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 361</td>
<td>Introduction to MS PowerPoint</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 362</td>
<td>Intro to MS Publisher</td>
<td>1</td>
</tr>
</tbody>
</table>

COMPUTER BUSINESS OFFICE TECHNOLOGY – ADMINISTRATIVE OFFICE SKILLS
(Certificate of Accomplishment)

Administrative Office Skills certificate is designed to provide training to develop entry-level office skills to prepare students for a position as an administrative assistant or secretary. Computer skills such as word processing, presentation software and desktop publishing are emphasized in addition to administrative operations and office procedures.
The graduate of the certificate program in administrative office skills will:

- Create memos, letters, tables, reports, forms and mail merge documents using word processing software.
- Create a presentation and business publication using the appropriate software.
- Apply proper administrative operations and procedures for business.
- Communicate clearly and professionally.

Fifteen units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>C131</td>
<td>Introduction to Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>C132</td>
<td>Advanced Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>C333</td>
<td>Business Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>C334</td>
<td>Administrative Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>C337</td>
<td>Presentation Design-PowerPoint</td>
<td>3</td>
</tr>
</tbody>
</table>

**COMPUTER SCIENCE (A.A.)**

The associate degree program in computer science is designed for students who desire to transfer to a four-year school. Computer science is the study of the theoretical foundations of information and computation and their implementation and application in computer systems. Courses cover programming fundamentals, data structures, discrete mathematics and computer architecture, along with specific programming languages.

The graduate of the AA program in computer science will:

- Recall significant computer science concepts, vocabulary and theories.
- Produce elementary programming projects in a variety of languages.
- Demonstrate the ability to follow instructions.
- Find and correct programming errors.

A major of 24 units is required for the associate in arts degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required core courses (18 units):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 111</td>
<td>Fundamentals of Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CS 112</td>
<td>Fundamentals of Programming 2</td>
<td>4</td>
</tr>
<tr>
<td>CS 141</td>
<td>Computer Fundamentals in Digital Design</td>
<td>3</td>
</tr>
<tr>
<td>CS 142</td>
<td>Computer Fundamentals in Digital Design</td>
<td>3</td>
</tr>
<tr>
<td>MATH 181</td>
<td>Calculus 1</td>
<td>5</td>
</tr>
<tr>
<td>Plus a minimum of 6 units selected from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 161</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 175</td>
<td>Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 181</td>
<td>Game Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

**COSMETOLOGY (A.S. & Certificate of Achievement)**

The associate degree and certificate curriculum in cosmetology is designed to prepare men and women for careers as licensed cosmetologists. Upon satisfactory completion of all cosmetology courses, students may qualify to take the California State Board of Cosmetology licensure examination. Licensed cosmetologists are qualified to work as beauticians in beauty salons and to own and operate their own salons.

Admittance to the cosmetology program requires the student to make an appointment for an orientation with the manager of one of the private beauty colleges with which the college has a training contract. Contact the program coordinator for specific information. In addition to regular Allan Hancock College fees, students will also be required to purchase a training kit and appropriate uniforms.

The graduate of the AS or certificate program in cosmetology will:

- Qualify for the California State Board of Cosmetology examination for licensure.
- Produce standard and individually designed services to meet the needs and expectations of clients.
- Contribute to the management and operational procedures of a beauty salon.
- Use cosmetology products, tools and equipment in a safe, healthy and effective manner.
- Promote a competitive edge by rendering styles and applications that are fashionable, artistic and technical in nature.

A major of 24 units is required for the associate in science degree and certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COS 301</td>
<td>Introduction to Cosmetology</td>
<td>6</td>
</tr>
<tr>
<td>COS 302 ABC</td>
<td>Advanced Cosmetology</td>
<td>18</td>
</tr>
</tbody>
</table>

**CULINARY ARTS AND MANAGEMENT - BAKING (Certificate of Accomplishment)**

The graduate of the certificate program in baking will:

- Denote the variety of services and business variations existing in the baking and events management sector of the hospitality industry.
- Demonstrate competency in safe, sanitary and efficient production and service operations.
- Analyze and respond to differing business climates based on best accounting and forecasting practices.
- Demonstrate competency in oral, written and electronic communications.
- Supervise and train a diverse employee pool in best industry practices.
- Follow all the governmental laws and regulations pertaining to food and beverage production. Fifteen units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA/FCS 120</td>
<td>Principles of Foods 1</td>
<td>4</td>
</tr>
<tr>
<td>CA 121</td>
<td>Basic Baking and Pastry</td>
<td>3</td>
</tr>
<tr>
<td>CA 122</td>
<td>Advanced Baking and Pastry</td>
<td>3</td>
</tr>
<tr>
<td>CA 123</td>
<td>Sanitation, Safety, and Equipment</td>
<td>3</td>
</tr>
<tr>
<td>CA 124</td>
<td>Specialty and Wedding Cakes</td>
<td>1</td>
</tr>
<tr>
<td>CA 134</td>
<td>Cake Decorating and Decorative Work</td>
<td>1</td>
</tr>
<tr>
<td>Recommended electives:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CA/FCS 123</td>
<td>Principles of Foods 2</td>
<td>2</td>
</tr>
<tr>
<td>CA 149</td>
<td>Cooperative Work Experience:</td>
<td></td>
</tr>
<tr>
<td>FCS 199</td>
<td>Occupational (related to Baking)</td>
<td>2</td>
</tr>
<tr>
<td>FCS 199</td>
<td>Special Topics in Foods and Nutrition</td>
<td>.5-3</td>
</tr>
</tbody>
</table>

**CULINARY ARTS AND MANAGEMENT - CATERING AND EVENTS MANAGEMENT (Certificate of Accomplishment)**

The graduate of the certificate program in catering & events management will:

- Denote the variety of services and business variations existing in the catering and events management sector of the hospitality industry.
- Demonstrate competency in safe, sanitary and efficient production and service operations.
- Analyze and respond to differing business climates based on best accounting and forecasting practices.
- Demonstrate competency in oral, written and electronic communications.
- Supervise and train a diverse employee pool in best industry practices.
- Follow all the governmental laws and regulations pertaining to food and beverage production.

Fifteen units constitute the certificate.
CULINARY ARTS AND MANAGEMENT -
FOOD PRODUCTION SUPERVISION
(Certificate of Accomplishment)
The graduate of the certificate program in food production supervision will:
• Denote the variety of services and business variations existing in the catering and events management sector of the hospitality industry.
• Demonstrate competency in safe, sanitary and efficient production and service operations.
• Analyze and respond to differing business climates based on best accounting and forecasting practices.
• Demonstrate competency in oral, written and electronic communications.
• Supervise and train a diverse employee pool in best industry practices.
• Follow all the governmental laws and regulations pertaining to food and beverage operations.

Ten and one-half units constitute the certificate.

COURSE NUMBER TITLE UNITS
CA 119 Introduction to the Hospitality Industry 2
CA 125 Supervision and Training Techniques 3
CA 126 Food Production Cost, Control & Management 3
CA 159 Safe Food Certification 3
CA 149 Cooperative Work Experience: Occupational (related to Catering) 2

CULINARY ARTS AND MANAGEMENT -
FOOD SERVICES PRODUCTION
(Certificate of Accomplishment)
The graduate of the certificate program in food services production will:
• Denote the variety of service and business structures existing in the food and beverage sector of the hospitality industry.
• Demonstrate competency in safe, sanitary and efficient food production operations.
• Analyze and respond to different business volumes based on best accounting and forecasting practices.
• Demonstrate competency in oral, written and electronic communications.

Thirteen units constitute the certificate.

COURSE NUMBER TITLE UNITS
CA 119 Introduction to the Hospitality Industry 2
CA/FCS 120 Principles of Foods 1 4
CA/FCS 123 Principles of Foods 2 2
CA 129 Catering and Events Management 3
CA 149 Cooperative Work Experience: Occupational (related to Food Production Supervision) 2

CULINARY ARTS AND MANAGEMENT -
DIETETIC SERVICE SUPERVISION
(Certificate of Achievement)
The graduate of the certificate program in dietetic service supervision will:
• Denote the variety of services and business variations existing in the catering and events management sector of the hospitality industry.
• Demonstrate competency in safe, sanitary and efficient production and service operations.
• Analyze and respond to differing business climates based on best accounting and forecasting practices.
• Demonstrate competency in oral, written and electronic communications.
• Supervise and train a diverse employee pool in best industry practices.
• Follow all the governmental laws and regulations pertaining to food and beverage operations.

Twenty units constitute the certificate.

COURSE NUMBER TITLE UNITS
AG 301 Pairing Wine and Foods .5
AG 302 Advanced Pairing Wine and Foods .5
AG 303 Advanced Pairing Wine and Foods .5
CA 126 Food Production Cost, Control and Management 3
CA 125 Supervision and Training Techniques 3
CA 124 Sanitation, Safety, and Equipment 3
CA 149 Cooperative Work Experience: Occupational (related to Food Production Supervision) 2

CULINARY ARTS AND MANAGEMENT -
RESTAURANT MANAGEMENT
(Certificate of Achievement)
The graduate of the certificate program in restaurant management will:
• Denote the variety of services and business structures existing in the food and beverage sector of the hospitality industry.
• Demonstrate competency in safe, sanitary and efficient production and service operations.
• Analyze and respond to differing business climates based on best accounting and forecasting practices.
• Demonstrate competency in oral, written and electronic communications.
• Supervise and train a diverse employee pool in best industry practices.
• Follow all the governmental laws and regulations pertaining to food and beverage operations.

Thirty-two units constitute the certificate.

COURSE NUMBER TITLE UNITS
CA 118 Beverage Management 1
CA 121 Basic Baking 3
CA/FCS 120 Principles of Foods 1 4
CA/FCS 123 Principles of Foods 2 2
CA 124 Sanitation, Safety, and Equipment 3
CA 125 Supervision and Training Techniques 3
CA 126 Food Production Cost, Control and Management 3
CA 129 Catering and Event Management 3
CA 149 Cooperative Work Experience: Occupational (related to Restaurant Management) 2
FCS/FSN 109 Basic Nutrition for Health 3
FCS 131 Life Management 3
FCS 132 Introduction to Culinology Profession 1

Recommended electives:
AG 301 Pairing Wine and Foods .5
AG 302 Advanced Pairing Wine and Foods .5
BUS 102 Marketing 3
CA 323 Specialty Wedding Cakes 1
CA 324 Cake Decorating 1
FCS/FSN 134 Food, Nutrition and Culture 4
FSN 133 Introduction to Food Science 3
CULINOLOGY® (A.A.)

The associate degree program in Culinology® prepares students to transfer to a four-year institution to pursue a baccalaureate degree in Culinology®. Students apply culinary techniques, food science technology and nutritional science principles to the production of quality food with high sensory appeal and marketability. Skills are transformed into careers such as corporate executive chefs, directors for food research and development, flavorists, food scientists/technologists, menu development professionals, product assurance/development managers, senior culinary research technologists, senior formulation chefs, techno-chefs and more. The program is accredited by the Research Chef’s Association and coursework is sequenced in building blocks of knowledge and skills with an emphasis on learning by doing. Graduates of the program also display skills necessary in pursuing baccalaureate degrees in food science, nutrition and dietics.

The graduate of the AA program in Culinology® will:
• Synthesize nutrition science information in order to embody and improve health and promote longevity.
• Demonstrate proper culinary techniques using various food products within a commercial facility.
• Demonstrate proper baking techniques using various food products within a commercial facility.
• Design and produce recipes and menus that demonstrate culinary proficiency within a commercial food service facility.
• Compare and contrast the different responsibilities within the food service industry and various government agencies in applying regulations designed to prevent food borne illness.
• Apply principles of food processing with regards to food technology, food quality, spoilage, packaging and label requirements.
• Compare and contrast various Culinology® career options and create and present both a portfolio and Culinology® project tailored to a chosen career.
• Evaluate and rank sensory indicators for foods, evaluate and test possible solutions, make alterations, formulate a food product and justify marketability.
• Differentiate the concepts of acculturation, assimilation and ethnocentrism in relation to food culture; translate nutritional value and needs into recipes and menus; and make a meal reflective of a specific culture.
• Apply all Culinology® program course principles within a work setting.

A major of 23 units is required for the associate in arts degree.

**COURSE NUMBER | TITLE | UNITS**
--- | --- | ---
Required core courses (23 units):  
CA/FCS 120 | Principles of Foods 1 | 4  
CA 121 | Basic Baking and Pastry | 3  
CA/FCS 123 | Principles of Foods 2 | 2  
CA 124 | Sanitation, Safety and Equipment | 3  
FCS/FSN 134 | Food, Nutrition, Customs and Culture | 4  
FSN 110 | Nutrition Science | 1  
FSN 132 | Introduction to Culinology® Professions | 1  
FSN 133 | Introduction to Food Science | 3

DANCE (A.A. & Certificate of Achievement)

The dance department offers training programs for both beginning and advanced students in the areas of ballet, modern, and jazz. The emphasis is on technique, choreography, and extensive performance opportunities.

The graduate of the AA or certificate program in dance will:
• Demonstrate proficiency in two of the following dance styles: modern, ballet, and jazz.
• Exhibit accomplished technique in tap and folkloric dance.
• Demonstrate competency through public performances.
• Develop and informed viewpoint of dance as an art form.
• Demonstrate choreographic skills including supervisory and effective communicative abilities.

A major of 32 units is required for the associate in arts degree and certificate of achievement. Demonstrated proficiency in two out of the three dance forms is required for the degree.

**COURSE NUMBER | TITLE | UNITS**
--- | --- | ---
Select 2 of the following:  
DANC 115 | Advanced Modern Dance | 3  
DANC 125 | Advanced Ballet | 3  
DANC 135 | Advanced Jazz | 3  
Select 1 of the following:  
DANC 140 | Beginning Folklorico | 2  
DANC 152 | Beginning Tap | 2  
--- Additional required core courses:  
DANC 101 | Dance Appreciation | 3  
DANC 170 | Music for Dance | 1  
DANC 171 | Dance Composition/Choreography | 3  
DANC 180 | Performance Lab | 3  
DANC 182 | Technical Production Lab | 3  
DANC 183 | Dance Ensemble | 3  
DANC 185 | Introduction to Performance Skills | 3  
--- Plus a minimum of 5 units selected from the following:  
DRMA 104 | Introduction to Acting | 3  
MUS 100 | Music Appreciation | 3  
DANC 133 | Hip Hop/Jazz Styles | 2  
DANC 142 | Intermediate Folklorico | 3  
DANC 145 | Folklorico Zapateados | 3  
DANC 148 | Folklorico Concert Production | 3  
DANC 151 | Clin In Tap | 3  
DANC 153 | Intermediate Tap | 2  
DANC 154 | Pointe and Partnering Clinic | 1  
DANC 155 | Clinic in Pilates | 1  
DANC 156 | Techniques for Stretch | 1  
DANC 167 | Clin In Intermediate Tap | 1  
DANC 172 | Beginning Ballroom Dance | 1  
DANC 174 | Intermediate Ballroom | 1  
DANC 175 | Clinic in Salsa | 1  
DANC 176 | Choreography Field Work | 2  
DANC 186 | Dance Production | 3

DENTAL ASSISTING  
(A.S. & Certificate of Achievement)

Approved by the California Dental Board Examiners, this program provides technical skills needed for employment in a dental office. The student develops skills to participate as a member of the dental health team in chairside general and specialty procedures, office management and x-ray techniques. Admittance to the dental assisting program requires the student to obtain program application forms and follow outlined procedures for enrollment. Applications and specific information are available from the department at the Health Sciences Office, located in the Building M Science Complex. A grade of “C” or better in the designated dental assisting classes is required to progress in the program.

Upon completion of the dental assisting certificate requirements, students are eligible to take the California Registered Dental Assistants Examination. Students are encouraged to complete the associate in science degree.

The graduate of the AS or certificate program in dental assisting will:
• Perform all Registered Dental Assistant duties as specified by accreditation standards through directed lectures, demonstrations, guided practice, written assignments, exams and evaluation of skills to prepare for taking the Registered Dental Assisting State Board Exam and the Law and Ethics examination and gain employment as a Registered Dental Assistant. Demonstrate chair side assisting skills and procedural knowledge of restorative and specialty procedures.
DEGREES & CERTIFICATES 80 DEGREES & CERTIFICATES

- Complete requirements to obtain a dental x-ray certificate and a coronal polishing certificate.
- Practice assisting skills that demonstrate a working knowledge of infection control protocols.
- Demonstrate office management skills including scheduling, treatment planning and patient charting.
- Demonstrate the fabrication of a bis-acrylic temporary crown and fabricate a Class II sedative dressing.
- Utilize dental assisting skills gained through the program to pass the state board exam.
- Complete requirements to obtain a certificate in pit and fissure sealants.
- Complete the requirements for the infection control certificate necessary to take the State Board examination.

A major of 33 units is required for the associate in science degree or the certificate.

COURSE NUMBER TITLE UNITS

Mandatory

1st Semester (Summer Session) 1 unit
DA 310 Exploring Career Opportunities 1

2nd Semester (Fall Semester) 16 units
DA 314 Introduction to Bio-Dental Science 3
DA 317 Dental Assisting Theory 7
DA 318 Basic Dental Assisting Skills 3
DA 319 Administrative Skills for Dental Assisting 3

3rd Semester (Spring Semester) 16 units
DA 325 Clinical Dental Procedures 3.5
DA 326 Dental Radiography 4
DA 327 Dental Screening .5
DA 328 Pit and Fissure Sealants 1
DA 329 Dental Assisting Practicum 5
DA 330 Coronal Polish 1
DA 332 RDA Law and Ethics .5
DA 348 RDA: Job Success Seminar .5

Recommended electives (for both 2nd & 3rd semesters):
DA 380 Dental Assisting Skills Lab .5

DRAMA - (Certificate of Accomplishment)

The Certificate of Accomplishment in Drama provides the student with an opportunity to develop a basic foundation in theatre. The curriculum is designed to offer students training in theory and analysis as well as the practice of theatrical art forms.

The graduate of the certificate program in drama will:
- Analyze and articulate a critical response to theatrical events employing a basic understanding of world theatre history and Western theatre tradition.
- Recognize and describe the key figures and the breadth of achievement in world theatre history.
- Apply appropriate, positive techniques when asked to participate as a member of a performance ensemble.

Fifteen units constitute the certificate.

COURSE NUMBER TITLE UNITS

Required core courses (9 units):
DRMA 103 Theatre Appreciation 3
DRMA 110 History of the World Theatre 1 3
DRMA 111 History of the World Theatre 2 3

Plus a minimum of 6 units selected from the following:
DANC 101 Dance Appreciation 3
DANC 135 Commercial Dance Forms 3
DANC 152 Musical Theatre Forms: Tap Dance 2
DRMA 104 Introduction to Acting 3
DRMA 106 Intermediate Acting/Scene Study 3
DRMA 128 Makeup for Stage-TV 3

DRAMA - ACTING (Certificate of Achievement)

A two-year vocational training program designed to develop the skills in acting or technical theatre necessary for the aspiring theatre artist to pursue a career in professional theatre. Students enrolled in this program receive instruction from theatre professionals who are company members of the Pacific Conservatory of the Performing Arts. Two areas of emphasis: acting and technical theatre. Admittance to program is by audition/interview.

The graduate of the certificate program in acting will:
- Develop the ability to collaborate with professionals in a rehearsal and performance process, demonstrating professional ethics, working discipline and performance skills to function at the highest standards of the theatrical profession.
- Develop a process for acting and text analysis which recognizes the activation of text as the central component of the rehearsal and performance process.
- Develop and improve vocal and physical techniques in support of character development in a rehearsal and performance process.
- Apply the principles and techniques of ensemble playing to any rehearsal process.

Seventy eight units constitute the certificate.

COURSE NUMBER TITLE UNITS

Required core courses:

Semester 1
DRMA 101 Applied Professional Acting I 10
DRMA 110 History of World Theatre 1 3
DRMA 112 Technical Production Lab 3
DRMA 113 Performance Lab 3
DRMA 401 Prof Theatre Dance Styles 2

Semester 2
DRMA 102 Applied Professional Acting II 10
DRMA 111 History of World Theatre 2 3
DRMA 112 Technical Production Lab 3
DRMA 113 Performance Lab 3
DRMA 401 Prof Theatre Dance Styles 2

Semester 3
DRMA 112 Technical Production Lab 3
DRMA 113 Performance Lab 3
DRMA 120 Advanced Applied Acting I 10
DRMA 401 Prof Theatre Dance Styles 2

Semester 4
DRMA 112 Technical Production Lab 3
DRMA 113 Performance Lab 3
DRMA 121 Advanced Applied Acting II 10
DRMA 401 Prof Theatre Dance Styles 2

Recommended electives:

DANC 120 Beginning Ballet 2
DANC 130 Beginning Jazz 2
DRMA 115 Repertory Theatre 10
DRMA 118 Introduction to Technical Theatre Lab 1
DRMA 189 Independent Projects in Drama 1-3

DRAMA - DESIGN/TECHNICAL THEATRE

(Certificate of Achievement)

A two-year vocational training program designed to develop the skills in acting or technical theatre necessary for the aspiring theatre artist to pursue a career in professional theatre. Students enrolled in this program receive instruction from theatre professionals who are company members of the Pacific Conservatory of the Performing Arts. Two areas of emphasis: acting and technical theatre. Admittance to program is by audition/interview.
### EARLY CHILDHOOD STUDIES: GENERAL

**A.S. & Certificate of Achievement**

Completion of the Early Childhood Studies: General program would qualify students up to a Master Teacher-level permit issued by the California Commission on Teacher Credentialing. This prepares the student to work in Title 5, Title XXII and federally funded programs.

The graduate of the AS or certificate program in elementary studies: general will:

- Understand and apply child development theories and principles.
- Identify and implement observation, documentation and other assessment strategies.
- Value and cultivate collaborative family and community relationships.
- Identify, develop and implement developmentally appropriate curriculum and teaching practices to positively guide children's behavior and learning.
- Develop self-reflective habits and grow as members of the early childhood profession to understand the complexities of working with diverse groups of families, children, staff and the community.
- Develop an environment that honors the diversity of the learning community (children, families, staff and community) through empowerment, equity, respect and dignity.

A major of 42 units is required for the associate in science degree and certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS 100</td>
<td>Early Child Development</td>
<td>3</td>
</tr>
<tr>
<td>ECS 101</td>
<td>Child, Family and Community</td>
<td>3</td>
</tr>
<tr>
<td>ECS 102</td>
<td>Child, Health, Safety and Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

### EARLY CHILDHOOD STUDIES: ELEMENTARY

**A.S. & Certificate of Achievement**

Completion of the Elementary Education program would qualify students up to a Teacher-level permit issued by the California Commission on Teacher Credentialing. This prepares the student to work in Title 5, Title XXII and federally funded programs.

The graduate of the AS or certificate program in elementary education will:

- Understand and apply child development theories and principles.
- Identify and implement observation, documentation and other assessment strategies.
- Value and cultivate collaborative family and community relationships.
- Identify, develop and implement developmentally appropriate curriculum and teaching practices to positively guide children's behavior and learning.
- Develop self-reflective habits and grow as members of the early childhood profession to understand the complexities of working with diverse groups of families, children, staff and the community.
- Develop an environment that honors the diversity of the learning community (children, families, staff and community) through empowerment, equity, respect and dignity.

A major of 42 units is required for the associate in science degree and certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ECS 100</td>
<td>Child Growth and Development</td>
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<td>ECS 101</td>
<td>Child, Family and Community</td>
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<tr>
<td>ECS 104</td>
<td>Principles and Practices</td>
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<td>ECS 105</td>
<td>Observation and Assessment</td>
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<tr>
<td>ECS 106</td>
<td>Introduction to Curriculum</td>
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<tr>
<td>ECS 115</td>
<td>Caring for Infants and Toddlers</td>
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<tr>
<td>ECS 117</td>
<td>Teaching the Bilingual/Bicultural Child</td>
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<tr>
<td>ECS 118</td>
<td>Practicum: Preschool</td>
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<tr>
<td>ECS 119</td>
<td>Practicum: Infant/Toddler</td>
<td>3</td>
</tr>
<tr>
<td>ECS 122</td>
<td>Positive Child Guidance</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 6 units selected from the following:

- ECS 112 The Preschool Child With Special Needs | 3
- ECS 113 Early Intervention | 3
- ECS 114 Parent/Child Relationships | 3
- ECS 117 Teaching the Bilingual/Bicultural Child | 3
- ECS 125 Curriculum for School-age Children | 3
- ECS 303 Introduction to Blackboard and Child Development Research | 1
- ECS 310 Art for Young Children | .5
- ECS 311 Creating Learning Materials | .5
- ECS 312 Music Activities for Young Children | .5
- ENGL 137 Children's Literature | 3
- FCS/FSN 109 Basic Nutrition for Health | 3
- or FSN 110 Nutrition Science | 3
- SPAN 101 Elementary Spanish | 5
EARLY CHILDHOOD STUDIES: ELEMENTARY EDUCATION WITH BILINGUAL/BICULTURAL EMPHASIS (A.S. & Certificate of Achievement)

Completion of the Elementary Education with Bilingual/Bicultural Emphasis program would qualify students up to a Master Teacher-level permit issued by the California Commission on Teacher Credentialing. This prepares the student to work in Title 5, Title XXII and federally funded programs.

The graduate of the AS or certificate program in elementary education with bilingual/bicultural emphasis will:
- Understand and apply child development theories and principles.
- Identify and implement observation, documentation and other assessment strategies.
- Value and cultivate collaborative family and community relationships.
- Identify, develop and implement developmentally appropriate curriculum and teaching practices to positively guide children's behavior and learning.
- Develop self-reflective habits and grow as members of the early childhood profession to understand the complexities of working with diverse groups of families, children, staff and the community.
- Develop an environment that honors the diversity of the learning community (children, families, staff and community) through empowerment, equity, respect and dignity.

A major of 42 units is required for the associate in science degree and certificate. Demonstration of proficiency in Spanish and in English is required (see note).

COURSE NUMBER | TITLE | UNITS
---|---|---
ECS 100 | Child Growth and Development | 3
ECS 101 | Child, Family and Community | 3
ECS 104 | Principles and Practices | 3
ECS 105 | Observation and Assessment | 3
ECS 106 | Introduction to Curriculum | 3
ECS 116 | Teaching in a Diverse Society | 3
ECS 117 | Teaching the Bilingual/Bicultural Child | 3
ECS 118 | Practicum: Preschool | 3
ECS 119 | Practicum: Infant/Toddler | 3
ECS 125 | Curriculum for School-Age Children, 6-12 Years | 3
ECS 126 | Exploring Teaching | 3
ECS 132 | Child Identity and Learning | 3
ECS/EDUC 133 | Technology for Educators | 3
ECS 102 | Child Health, Safety and Nutrition | 3
ECS 122 | Positive Child Guidance | 3
ECS 303 | Introduction to Blackboard and Child Development Research | 1
EMS 102 | First Aid and Safety Education | 3
ENGL 137 | Children's Literature | 3
MUS 110 | Music Fundamentals | 2
SPAN 104 | Intermediate Spanish | 5

Note: Proficiency in English may be demonstrated by the completion of English 101 and 102 with grades of "C" or better. Proficiency in Spanish may be demonstrated by the completion of Spanish 104 or a score of 3 or higher on an AP Spanish language exam.

EARLY CHILDHOOD STUDIES: PRESCHOOL/INFANT-TODDLER PROGRAM DIRECTOR (A.S. & Certificate of Achievement)

Completion of the Preschool/Infant Toddler Program would qualify students up a Site Supervisor-level permit issued by the California Commission on Teacher Credentialing. This prepares the student to work in Title 5, Title XXII and federally funded programs.

The graduate of the AS or certificate program in preschool/infant toddler program director will:
- Understand and apply child development theories and principles.
- Identify and implement observation, documentation and other assessment strategies.
- Value and cultivate collaborative family and community relationships.
- Identify, develop and implement developmentally appropriate curriculum and teaching practices to positively guide children's behavior and learning.
- Develop self-reflective habits and grow as members of the early childhood profession to understand the complexities of working with diverse groups of families, children, staff and the community.
- Develop an environment that honors the diversity of the learning community (children, families, staff and community) through empowerment, equity, respect and dignity.

A major of 38 units is required for the associate in science degree and certificate.

COURSE NUMBER | TITLE | UNITS
---|---|---
ECS 100 | Child Growth and Development | 3
ECS 101 | Child, Family and Community | 3
ECS 102 | Child Health, Safety and Nutrition | 3
ECS 104 | Principles and Practices | 3
ECS 105 | Observation and Assessment | 3
ECS 106 | Introduction to Curriculum | 3
ECS 111 | Supervision and Administration | 3
ECS 115 | Caring for Infants and toddlers | 3
ECS 118 | Practicum: Preschool | 3
ECS 119 | Practicum: Infant Toddler | 3
ECS 120 | Mentor Teacher and Adult Supervision | 2
ECS 320 | Administration: Staff Leadership | 1
ECS 321 | Administration: Professional Ethics | 1
ECS 322 | Administration: Parents as Partners | 1
ACCT 317 | Bookkeeping | 3
BUS 106 | Small Business Management | 3
BUS 107 | Human Relations in Business | 3
ECS 112 | The Preschool Child with Special Needs | 3
ECS 113 | Early Infant Intervention | 3
ECS 114 | Parent/Child Relationships | 3
ECS 117 | Teaching the Bilingual/Bicultural Child | 3
ECS 122 | Positive Child Guidance | 3
ECS 121 | Family Child Care Business | 2
ECS 125 | Curriculum for School-Age Children | 3
ECS 303 | Introduction to Blackboard and Child Development Research | 1
FCS/FSN 109 | Basic Nutrition for Health | 3
or
FSN 110 | Nutrition Science | 3
EARLY CHILDHOOD STUDIES: SPECIAL EDUCATION (A.S. & Certificate of Achievement)

Completion of the Special Education program would qualify students up to a Master Teacher-level permit issued by the California Commission on Teacher Credentialing. This prepares the student to work in Title 5, Title XXII and federally funded programs.

The graduate of the AS or certificate program in special education will:

- Understand and apply child development theories and principles.
- Identify and implement observation, documentation and other assessment strategies.
- Value and cultivate collaborative family and community relationships.
- Identify, develop and implement developmentally appropriate curriculum and teaching practices to positively guide children's behavior and learning.
- Develop self-reflective habits and grow as members of the early childhood profession to understand the complexities of working with diverse groups of families, children, staff and the community.
- Develop an environment that honors the diversity of the learning community (children, families, staff and community) through empowerment, equity, respect and dignity.

A major of 41 units is required for the associate in science degree and certificate.

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<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>EL 118</td>
<td>Fundamentals of DC &amp; AC Circuit Analysis</td>
<td>3</td>
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<td>or</td>
<td>EL 111</td>
<td>1.5</td>
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<tr>
<td>and</td>
<td>EL 113</td>
<td>1.5</td>
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<tr>
<td>EL 119</td>
<td>Fundamentals of DC &amp; AC Circuit Analysis Lab</td>
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<tr>
<td>or</td>
<td>EL 112</td>
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<td>and</td>
<td>EL 114</td>
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<tr>
<td>EL 122</td>
<td>Electronic Devices and Circuits</td>
<td>3</td>
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<td>EL 123</td>
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<td>EL 125</td>
<td>Digital Devices and Circuits</td>
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<tr>
<td>EL 126</td>
<td>Digital Devices and Circuits Lab</td>
<td>2</td>
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<tr>
<td>EL 135</td>
<td>Electronic Measurement &amp; Instrumentation</td>
<td>3</td>
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<tr>
<td>EL 136</td>
<td>Electronic Measurement &amp; Instrumentation Lab</td>
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<tr>
<td>EL 146</td>
<td>Electronic Product Design, Fabrication &amp; Documentation</td>
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</tbody>
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ELECTRONICS TECHNOLOGY (A.S.)

The associate in science degree in electronics technology provides the basic knowledge and skills required for a wide variety of occupations in the field of electronics. This degree will also allow the student to transfer into an engineering technology baccalaureate program.

The graduate of the AS program in electronics technology will:

- Demonstrate learned skills with a capstone project requiring you to design, build and evaluate a piece of electronic equipment.

A major of 22 units is required for the associate in science degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
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<tbody>
<tr>
<td>CS 141</td>
<td>Computer Fundamentals in Digital Design</td>
<td>3</td>
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<tr>
<td>EL 118</td>
<td>Fundamentals of DC &amp; AC Circuit Analysis</td>
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<tr>
<td>or</td>
<td>EL 111</td>
<td>1.5</td>
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<td>and</td>
<td>EL 113</td>
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<tr>
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<td>Electronic Measurement &amp; Instrumentation Lab</td>
<td>2</td>
</tr>
<tr>
<td>EL 146</td>
<td>Electronic Product Design, Fabrication &amp; Documentation</td>
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ELECTRONICS TECHNOLOGY WITH EMPHASIS IN NETWORK MAINTENANCE AND DIGITAL TECHNOLOGIES (A.S. & Certificate of Achievement)

The associate in science degree or certificate option offer students a comprehensive program in networking essentials, basic electronics and computer applications.
The graduate of the AS or certificate program in network maintenance/digital technologies will:
- Demonstrate a fundamental mastery of knowledge and the use of electronic equipment in electrical, digital and analog circuits.
- Use computer simulation and design software to conduct, analyze and interpret electrical, digital and analog circuits.
- Make calculations involving various electrical laws, formulas and principles for predicting circuit parameters using algebra and trigonometry required for electronics.
- Use research strategies to acquire information pertinent to the solution of electronic circuits and systems.
- Write technical laboratory reports with conclusions.
- Demonstrate understanding of how computers communicate with each other and the methods employed to ensure that the communications is reliable.
- Modify operating parameters of infrastructure network devices to meet network requirements.

A major of 29 units is required for the associate in science degree and certificate.

### Required core courses (18 units):

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<tr>
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</thead>
<tbody>
<tr>
<td>EL 105</td>
<td>PC Preventive Maintenance and Upgrading</td>
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<tr>
<td>EL 106</td>
<td>Networking Essentials 1</td>
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<tr>
<td>EL 107</td>
<td>Networking Essentials 2</td>
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<tr>
<td>EL 108</td>
<td>Networking Essentials 3</td>
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<td>EL 118</td>
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<tr>
<td>EL 114</td>
<td>Fundamentals of AC Circuit Analysis Lab</td>
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Plus a minimum of 3 units selected from the following:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
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<tr>
<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CS 102</td>
<td>Introduction to Computing with HTML</td>
<td>3</td>
</tr>
<tr>
<td>EL 125</td>
<td>Digital Devices and Circuits</td>
<td>3</td>
</tr>
<tr>
<td>EL 126</td>
<td>Digital Devices and Circuits Lab</td>
<td>2</td>
</tr>
<tr>
<td>CS 141</td>
<td>Computer Fundamentals in Digital Design</td>
<td>3</td>
</tr>
<tr>
<td>CS 142</td>
<td>Computer Fundamentals in Digital Design Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

Plus a minimum of 3 units selected from the following:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 111</td>
<td>Fundamentals of Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS 161</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 171</td>
<td>FORTRAN</td>
<td>3</td>
</tr>
<tr>
<td>CS 175</td>
<td>Object-Oriented Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

### ELECTRONICS TECHNOLOGY: ELECTRONIC TRAINING (Certificate of Achievement)

The electronic training certificate provides the basic knowledge and skills required for entry-level employment in a narrowed range of career occupations.

The graduate of the certificate program in electronic training will:
- Demonstrate a fundamental mastery of knowledge and the use of electronic equipment in electrical, digital and analog circuits.
- Use computer simulation and design software to conduct, analyze and interpret electrical, digital and analog circuits.
- Make calculations involving various electrical laws, formulas, and principles for predicting circuit parameters using algebra and trigonometry required for electronics.
- Use research strategies to acquire information pertinent to the solution of electronic circuits and systems.
- Write technical laboratory reports with conclusions.
- Build and analyze a modern computer system using subsystems.

Eighteen units constitute the certificate.

### COURSE NUMBER | TITLE                                                                 | UNITS |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EL 105</td>
<td>PC Preventive Maintenance and Upgrading</td>
<td>3</td>
</tr>
<tr>
<td>EL 108</td>
<td>Fundamentals of DC &amp; AC Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EL 111                Fundamentals of DC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>and</td>
<td>EL 113                Fundamentals of AC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>and</td>
<td>EL 119                Fundamentals of DC &amp; AC Circuit Analysis Lab</td>
<td>2</td>
</tr>
<tr>
<td>and</td>
<td>EL 112                Fundamentals of DC Circuit Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>and</td>
<td>EL 114                Fundamentals of AC Circuit Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>and</td>
<td>EL 122                Electronic Devices and Circuits</td>
<td>3</td>
</tr>
<tr>
<td>and</td>
<td>EL 123                Electronic Devices and Circuits Lab</td>
<td>2</td>
</tr>
<tr>
<td>and</td>
<td>EL 125                Digital Devices and Circuits</td>
<td>3</td>
</tr>
<tr>
<td>and</td>
<td>EL 126                Digital Devices and Circuits Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

### ELECTRONICS TECHNOLOGY: MECHATRONICS (A.S. & Certificate of Achievement)

The associate in science degree or certificate option offers students a comprehensive program of study in the software, electronics and mechanics of technologies used in automation (process control), robotics and machine design and maintenance.

The graduate of the AS or certificate program in mechatronics will:
- Demonstrate a fundamental mastery of knowledge and the use of electronic equipment in electrical, digital and analog circuits.
- Use computer simulation and design software to conduct, analyze and interpret electrical, digital and analog circuits.
- Make calculations involving various electrical laws, formulas and principles for predicting circuit parameters using algebra and trigonometry required for electronics.
- Use research strategies to acquire information pertinent to the solution of electronic circuits and systems.
- Write technical laboratory reports with conclusions.
- Demonstrate learned skills with a capstone project requiring you to design, build and evaluate a piece of electronic equipment.
- Apply current knowledge and adapt to emerging applications of automation and control.

A major of 52 units is required for the associate in science degree and certificate.

### COURSE NUMBER | TITLE                                                                 | UNITS |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 111</td>
<td>Fundamentals of Programming</td>
<td>4</td>
</tr>
<tr>
<td>EL/CEL/ET 104</td>
<td>Introduction to Robotics &amp; Mechatronics</td>
<td>3</td>
</tr>
<tr>
<td>EL 111</td>
<td>Fundamentals of DC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>EL 112</td>
<td>Fundamentals of DC Circuit Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>EL 113</td>
<td>Fundamentals of AC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>EL 114</td>
<td>Fundamentals of AC Circuit Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>EL 122</td>
<td>Electronic Devices and Circuits</td>
<td>3</td>
</tr>
<tr>
<td>EL 123</td>
<td>Electronic Devices and Circuits Lab</td>
<td>2</td>
</tr>
<tr>
<td>CS 141</td>
<td>Computer Fundamentals in Digital Design Lab</td>
<td>3</td>
</tr>
<tr>
<td>EL 125</td>
<td>Digital Devices and Circuits</td>
<td>3</td>
</tr>
<tr>
<td>CS 142</td>
<td>Computer Fundamentals in Digital Design Lab</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>CS 141                Computer Fundamentals in Digital Design Lab</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MT 330                Print Reading and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 306              Layout and Fabrication Interpretation</td>
<td>3</td>
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</tbody>
</table>

### Required core courses (37 units):

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 111</td>
<td>Fundamentals of Programming</td>
<td>4</td>
</tr>
<tr>
<td>EL/CEL/ET 104</td>
<td>Introduction to Robotics &amp; Mechatronics</td>
<td>3</td>
</tr>
<tr>
<td>EL 111</td>
<td>Fundamentals of DC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>EL 112</td>
<td>Fundamentals of DC Circuit Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>EL 113</td>
<td>Fundamentals of AC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>EL 114</td>
<td>Fundamentals of AC Circuit Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>EL 122</td>
<td>Electronic Devices and Circuits</td>
<td>3</td>
</tr>
<tr>
<td>EL 123</td>
<td>Electronic Devices and Circuits Lab</td>
<td>2</td>
</tr>
<tr>
<td>CS 141</td>
<td>Computer Fundamentals in Digital Design Lab</td>
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</tr>
<tr>
<td>CS 142</td>
<td>Computer Fundamentals in Digital Design Lab</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>EL 125                Digital Devices and Circuits</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EL 126                Digital Devices and Circuits Lab</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>MT 330                Print Reading and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 306              Layout and Fabrication Interpretation</td>
<td>3</td>
</tr>
</tbody>
</table>
The associate in science degree curriculum in electronic engineering technology provides the lower division course requirements leading to a baccalaureate degree in engineering technology. The graduate of the AS program in electronic engineering technology will:

- Demonstrate a fundamental mastery of knowledge and the use of electronic equipment in electrical, digital and analog circuits.
- Use computer simulation and design software to conduct, analyze and interpret electrical, digital and analog circuits.
- Make calculations involving various electrical laws, formulas, and principles for predicting circuit parameters using algebra and trigonometry required for electronics.
- Use research strategies to acquire information pertinent to the solution of electronic circuits and systems.
- Write technical laboratory reports with conclusions.
- Demonstrate learned skills with a capstone project requiring you to design, build and evaluate a piece of electronic equipment.

A major of 42 units is required for the associate in science degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL 146</td>
<td>Electronic Product Design, Fabrication &amp; Documentation</td>
<td>2</td>
</tr>
<tr>
<td>MT 109</td>
<td>Survey of Machining</td>
<td>4</td>
</tr>
<tr>
<td>ET 140</td>
<td>Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>SP 128</td>
<td>Materials and Processes</td>
<td>3</td>
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</table>

Plus a minimum of 15 units selected from the following:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 137</td>
<td>Microcomputer Architecture and Software Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 175</td>
<td>Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 164</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EL 105</td>
<td>PC Preventive Maintenance &amp; Upgrade</td>
<td>3</td>
</tr>
<tr>
<td>EL 320</td>
<td>A+ Certification</td>
<td>2</td>
</tr>
<tr>
<td>EL 106</td>
<td>Networking Essentials 1</td>
<td>3</td>
</tr>
<tr>
<td>EL 107</td>
<td>Networking Essentials 2</td>
<td>3</td>
</tr>
<tr>
<td>EL/CET/ET 128</td>
<td>Renewable Energy</td>
<td>3</td>
</tr>
<tr>
<td>EL/CET/ET 131</td>
<td>Programmable Logic Controllers and Industrial Control Design</td>
<td>3</td>
</tr>
<tr>
<td>EL/CET/ET 133</td>
<td>Transducers and Sensors</td>
<td>3</td>
</tr>
<tr>
<td>EL 135</td>
<td>Electronic Measurement &amp; Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>EL 136</td>
<td>Electronic Measurement &amp; Instrumentation Lab</td>
<td>2</td>
</tr>
<tr>
<td>EL/ET 138</td>
<td>Introduction to Motorola’s 68000 Microprocessor Family</td>
<td>3</td>
</tr>
<tr>
<td>EL/CET/ET 139</td>
<td>Electrical Power, Motors and Controls</td>
<td>3</td>
</tr>
<tr>
<td>EL/CET/ET 162</td>
<td>Fluid Power and Control</td>
<td>2</td>
</tr>
<tr>
<td>ET 100</td>
<td>Computer Aided Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>MT 100</td>
<td>Machine Tool Practices</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 100</td>
<td>Concepts in Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 110</td>
<td>Introductory Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHSC 111</td>
<td>Matter, Energy, and Molecules</td>
<td>4</td>
</tr>
<tr>
<td>SP 104</td>
<td>Quality Management Control and Safety</td>
<td>3</td>
</tr>
<tr>
<td>WLDT 106</td>
<td>Beginning Welding</td>
<td>3</td>
</tr>
<tr>
<td>WLDT 107</td>
<td>Advanced Welding</td>
<td>3</td>
</tr>
<tr>
<td>WLDT 307</td>
<td>G.M.A.W. Welding</td>
<td>3</td>
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<tr>
<td>WLDT 308</td>
<td>T.I.G. Welding</td>
<td>3</td>
</tr>
<tr>
<td>WLDT 315</td>
<td>Metal Fabrication</td>
<td>4</td>
</tr>
</tbody>
</table>

Required core courses (42 units):

- CS 137 Microcomputer Architecture and Software Design 4
- CS 175 Object-Oriented Programming 3
- CS 164 Software Engineering 3
- EL 105 PC Preventive Maintenance & Upgrade 3

EMERGENCY MEDICAL SERVICES (A.S. & Certificate of Achievement)

The associate in science degree and certificate in emergency medical services prepares students to be entry-level technicians capable of providing emergency medical care and transportation as well as the ability to professionally interact with allied medical team members.

The graduate of the AS or certificate program in emergency medical services will:

- Identify minimum qualifications and entry-level skills for an EMT-1 Basic.
- Describe the following elements: application process; written exam process; physical agility testing; and oral interview.
- Identify the history of EMS and the impact of culture and diversity within that history.
- Demonstrate the role and responsibilities of EMTs as professionals in the health care system interacting with other allied health personnel.
- Demonstrate the process for conducting patient assessments in a variety of pre-hospital situations for clients of various ages.
- Recognize the signs and symptoms of life threatening situations and be able to triage clients accurately, formulating and evaluating treatment plans for patients of various ages in pre-hospital settings.
- Develop, demonstrate and evaluate treatment plans for patients forms of trauma.
- Demonstrate the principles and practices for organizing an accident scene when an ambulance is required including: a) analyzing a multiple casualty incident (MCI) and directing resources approximately in a timely manner, and b) organizing appropriate scene response, scene size up, initial assessment, focused assessment, detailed assessment and appropriate medical care of clients of various ages.
- Differentiate the incidence, morbidity and mortality of soft tissue injuries in trauma patients.
- Create a treatment plan based on the patient’s presenting signs and symptoms.
- Demonstrate the ability to review the treatment plan based on the patient’s needs and changes in physical and psychosocial baselines.
- Collect and construct a concise and detailed patient report.
- Demonstrate competency using aseptic technique when using emergency equipment.
- Demonstrate the safe driving and operation of an ambulance and all related patient transfer equipment.

A major of 29.5 units is required for the associate in science degree and certificate.
<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ 341</td>
<td>Emergency Vehicle Operations/ Non-Law Enforcement</td>
<td>.5</td>
</tr>
<tr>
<td>EMS 300</td>
<td>Introduction to Emergency Medical Services</td>
<td>.5</td>
</tr>
<tr>
<td>EMS 301</td>
<td>Emergency Medical Technician-1 (Basic)</td>
<td>5</td>
</tr>
<tr>
<td>EMS 302</td>
<td>EMS Academy 1B (Advanced)</td>
<td>7</td>
</tr>
<tr>
<td>EMS 306</td>
<td>CPR for Healthcare Providers</td>
<td>.5</td>
</tr>
<tr>
<td>ENVT 156</td>
<td>First Responder Op 16-Hr</td>
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</tr>
<tr>
<td>HUSV 148</td>
<td>Coping with Emergency Response</td>
<td>3</td>
</tr>
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</table>

Plus a minimum of 12 units selected from the following:

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<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
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</tr>
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<tbody>
<tr>
<td>EMS 102</td>
<td>First Aid and Safety Education</td>
<td>3</td>
</tr>
<tr>
<td>EMS 134</td>
<td>Internship Seminar</td>
<td>1</td>
</tr>
<tr>
<td>EMS 149</td>
<td>Cooperative Work Experience; Occupational (related to EMS)</td>
<td>1-8</td>
</tr>
<tr>
<td>EMS 303</td>
<td>Paramedic Prep</td>
<td>1.5</td>
</tr>
<tr>
<td>EMS 304</td>
<td>EMT Clinical Experience</td>
<td>2</td>
</tr>
<tr>
<td>EMS 307</td>
<td>Wilderness EMS-First Aid</td>
<td>2</td>
</tr>
<tr>
<td>EMS 309</td>
<td>Basic Trauma Life Support</td>
<td>1</td>
</tr>
<tr>
<td>EMS 310</td>
<td>Child Care First Aid and CPR</td>
<td>.5</td>
</tr>
<tr>
<td>EMS/F/T 319</td>
<td>Emergency Response to Terrorism</td>
<td>3</td>
</tr>
<tr>
<td>EMS 320</td>
<td>Emergency Medical Response to Hazardous Materials</td>
<td></td>
</tr>
<tr>
<td>EMS 321</td>
<td>Advanced Cardiac Life Support (ACLS)</td>
<td>1</td>
</tr>
<tr>
<td>EMS 322</td>
<td>Pediatric Advanced Life Support</td>
<td>1</td>
</tr>
<tr>
<td>EMS 325</td>
<td>Lifeguard Certification</td>
<td>2</td>
</tr>
<tr>
<td>EMS 315</td>
<td>Ambulance Strike Team Provider</td>
<td>1</td>
</tr>
<tr>
<td>EMS 316</td>
<td>Ambulance Strike Team Leader</td>
<td>1</td>
</tr>
<tr>
<td>EMS 328</td>
<td>Wilderness EMS - Wilderness Travel</td>
<td>1.5</td>
</tr>
<tr>
<td>EMS 337</td>
<td>Wilderness EMS -Aircraft Search Technology and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>EMS/FT</td>
<td>Paramedic Clinical Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EMS 347</td>
<td>Wilderness EMS- Urban, Rural and Wilderness SAR Management</td>
<td>2</td>
</tr>
<tr>
<td>EMS 350</td>
<td>Wilderness EMS - Essentials of Search and Rescue</td>
<td>3</td>
</tr>
<tr>
<td>EMS 353</td>
<td>Paramedic Field Internship</td>
<td>10</td>
</tr>
<tr>
<td>EMS 360</td>
<td>Wilderness EMS - Man Tracking 1</td>
<td>1</td>
</tr>
<tr>
<td>EMS 362</td>
<td>Wilderness EMS - Man Tracking 2</td>
<td>1</td>
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<tr>
<td>EMS 378</td>
<td>Wilderness EMS - EMT Wilderness Transition</td>
<td>2.5</td>
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<tr>
<td>EMS 388</td>
<td>Wilderness EMS - Searching with Canine (K-9) Teams</td>
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</tr>
<tr>
<td>EMS 416</td>
<td>Child Care First Aid and CPR Refresher</td>
<td>.5</td>
</tr>
<tr>
<td>ENVT 338</td>
<td>Land Navigation</td>
<td>1.5</td>
</tr>
<tr>
<td>WFT 302</td>
<td>Basic Incident Command System (I-200)</td>
<td>.5</td>
</tr>
</tbody>
</table>

**EMERGENCY MEDICAL SERVICES - EMERGENCY MEDICAL TECHNICIAN 1 (Basic) (Certificate of Accomplishment)**

The first phase of training in the emergency medical career structure, covering all techniques of pre-hospital emergency medical care presently considered within the responsibilities of Emergency Medical Technician 1 (Basic), as well as all operational aspects of the job which technicians are expected to perform. Special content of the course is based on the guidelines and authority of Title 22, Division 9, of the California Code of Regulations, as well as the U.S. Department of Transportation Emergency Medical Technician-Basic Standard National Curriculum. Students desiring state certification as an Emergency Medical Technician 1 (Basic) must complete 16 hours of emergency room and ambulance clinical observation time beyond the course requirements.

Ambulance attendants are required to possess a certificate issued by an educational agency approved by the County Department of Health Safety. The certificate is obtained upon completion of this approved program.

The graduate of the certificate program in emergency medical technician 1 (basic) will:

- Recognize the role and responsibilities of EMTs as professionals in the health care system interacting with other allied health personnel.
- Demonstrate the process for conducting patient assessments in a variety of pre-hospital situations for clients of various ages.
- Recognize the signs and symptoms of life threatening situations and be able to triage clients accurately, formulating and evaluating treatment plans for clients of various ages in pre-hospital settings.
- Develop, demonstrate and evaluate treatment plans for clients with various forms of trauma.
- Demonstrate the principles and practices for organizing an accident scene when an ambulance is required including: a. Analyzing a multiple casualty incident (MCI) and directing resources appropriately in a timely manner; b. Organizing appropriate scene response, scene size up, initial assessment, focused assessment, detailed assessment, and appropriate medical care of clients of various ages.
- Differentiate the incidence, morbidity, and mortality of the soft tissue injuries in trauma patients. Create a treatment plan based on the patient’s presenting signs and symptoms.
- Demonstrate the ability to revise the treatment plan based on the patient’s needs and changes in physical and psychosocial baselines.
- Demonstrate competency using aseptic technique when using emergency equipment.
- Identify the state and federal requirements for becoming a certified EMT-1 Basic.

Five and one-half units constitute the certificate.

**EMERGENCY MEDICAL SERVICES - PARAMEDIC TRAINING (Certificate of Achievement)**

The paramedic program is a one-year, three-part curriculum designed to provide Emergency Medical Services, Fire Technology and Environmental Technology students with additional training in advanced life-support patient care. Upon successful completion of the program, the student is eligible to sit or the practical and written examinations of the Paramedic National Registry, which is recognized by California for state licensure as an Emergency Medical Technician-Paramedic.

The graduate of the certificate program in paramedics will demonstrate:

- An understanding of EMS knowledge necessary to function in a healthcare setting.
- An understanding of general medical knowledge necessary to function in a healthcare setting.
- An ability to collect data from charts and patients.
- An ability to interpret patient data.
- An ability to recommend appropriate diagnostic and therapeutic procedures.
- An ability to use sound judgment while functioning in a healthcare setting.
- An ability to perform a broad range of clinical skills.
- An ability to perform patient assessment.
- An ability to perform therapeutic procedures and modalities.
- An ability to perform and interpret diagnostic procedures.
- An ability to communicate effectively in a healthcare setting.
- An ability to conduct oneself in an ethical and professional manner.
- An ability to manage time effectively while functioning in a healthcare setting.
- An ability to use critical thinking skills to assess and treat patients in emergency settings.

Twenty-nine units constitute the certificate.
The following Emergency Medical Services certificates prepare students who have successfully completed or who are concurrently enrolled in EMS class for entry-level employment or provide skills needed to maintain job-related skills necessary for continued employment.

**EMERGENCY MEDICAL SERVICES ACADEMY**
(Certificate of Accomplishment)

The graduate of the certificate program in emergency medical services academy will:

- Recognize the role and responsibilities of EMTs as professionals in the health care system interacting with other allied health personnel.
- Demonstrate the process for conducting patient assessments in a variety of pre-hospital situations for patients of various ages.
- Recognize the signs and symptoms of life threatening situations and be able to triage clients accurately, formulating and evaluating treatment plans for clients of various ages in pre-hospital settings.
- Develop, demonstrate and evaluate treatment plans for clients with various forms of trauma.
- Demonstrate the principles and practices for organizing an accident scene when an ambulance is required including: a) analyzing a multiple casualty incident (MCI) and directing resources appropriately in a timely manner, and b) organizing appropriate scene response, scene size up, initial assessment, focused assessment, detailed assessment and appropriate medical care of clients of various ages.
- Differentiate the incidence, morbidity and mortality of soft tissue injuries in trauma patients.
- Create a treatment plan based on the patient’s presenting signs and symptoms.
- Demonstrate the ability to revise the treatment plan based on the patient’s needs and changes in physical and psychosocial baselines.
- Demonstrate competency using aseptic technique when using emergency equipment.
- Identify the state and federal requirements for becoming a certified EMT-1 Basic.

Eight units constitute the certificate.

**EMERGENCY MEDICAL SERVICES - ADVANCED CARDIAC LIFE SUPPORT**
(Certificate of Accomplishment)

The graduate of the certificate program in advanced cardiac life support will:

- Demonstrate the process for conducting patient assessments in a variety of advanced life support pre-hospital and hospital situations for adult patients.
- Recognize the signs and symptoms of life threatening cardiac related emergencies.
- Develop, demonstrate and evaluate treatment plans for patients with various types of cardiac emergencies.
- Demonstrate the ability to revise the treatment plan based on the patient’s needs and changes in physical and psychosocial baselines.
- Collect and construct a concise and detailed patient history and report.
- Demonstrate competency using aseptic technique when using emergency equipment.
- Demonstrate the safe driving and operation of an ambulance and all related patient transfer equipment.
- Describe the following elements: application process; written exam process, physical agility testing; and oral interview.
- Identify potentially dangerous cardiac arrhythmias and demonstrate the appropriate drug and electrical therapy for each of these EKG rhythms.
- Demonstrate the proper insertion, ventilation and maintenance of advanced level airways.

Three units constitute the certificate.

**EMERGENCY MEDICAL SERVICES - FIRST RESPONDER UPDATE**
(Certificate of Accomplishment)

The graduate of the certificate program in first responder update will:

- Describe the role and responsibilities of the Medical First Responder as professionals in the health care system interacting with other allied health personnel.
- Demonstrate the process for conducting patient assessments in a variety of pre-hospital situations for patients of various ages.
- Recognize the signs and symptoms of life threatening situations and be able to triage clients accurately, formulating and evaluating treatment plans for clients of various ages in pre-hospital settings.
- Develop, demonstrate and evaluate treatment plans for patients with various forms of trauma.
- Describe principles and practices for organizing an accident scene when an ambulance is required including: a) analyzing a multiple casualty incident (MCI) and directing resources appropriately in a timely matter, and b) organizing appropriate scene response, scene size up, initial assessment, focused assessment, detailed assessment and appropriate medical care of clients of various ages.

One and one-half – two units constitute the certificate.
The associate degree in engineering provides lower-division coursework that can serve as the basis for a bachelor's degree offered by a four-year college or university. Students who intend to transfer should check the lower-division requirements in the catalog of the college or university to which they intend to transfer, create a Student Educational Plan with an academic counselor, visit www.assist.org, and consult the engineering faculty.

The engineering program provides a general background suitable for a variety of engineering fields including mechanical, civil, aerospace, electrical, computer and biomedical engineering.

The graduate of the AA program in engineering will:
- Apply fundamental concepts of mathematics (through calculus), science and engineering.
- Identify, formulate and solve basic engineering problems.
- Conduct experiments and analyze and interpret data.
- Make basic design decisions concerning appropriate-level engineering problems.
- Communicate effectively both orally and in writing, using symbols, graphics and numbers.
- Recognize the need for, and an ability to engage in, lifelong learning.
- Function professionally and ethically as an individual and within diverse teams.
- Use techniques, skills and modern engineering tools necessary in engineering education and practice.

A major of 35 units is required for the associate in arts degree.

**Required core courses (20 units):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 150</td>
<td>General Chemistry 1</td>
<td>5</td>
</tr>
<tr>
<td>MATH 182</td>
<td>Calculus 2</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 161</td>
<td>Engineering Physics 1</td>
<td>5</td>
</tr>
<tr>
<td>or PHYS 162</td>
<td>Engineering Physics 2</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 163</td>
<td>Engineering Physics 3</td>
<td>5</td>
</tr>
</tbody>
</table>

Plus a minimum of 6 units selected from Category A and 9 units selected from Category A and/or B.

**Category A - Engineering**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 152</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 154</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 156</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 161</td>
<td>Materials Science</td>
<td>3</td>
</tr>
<tr>
<td>and ENGR 162</td>
<td>Materials Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 170</td>
<td>Electric Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>and ENGR 171</td>
<td>Electric Circuit Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 172</td>
<td>Circuits and Devices</td>
<td>4</td>
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<tr>
<td>and ENGR 173</td>
<td>Circuits and Devices Lab</td>
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</table>

**Category B - Engineering Support**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>CHEM 151</td>
<td>General Chemistry 2</td>
<td>5</td>
</tr>
<tr>
<td>CS 111</td>
<td>Fundamentals of Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>or CS 175</td>
<td>Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 141</td>
<td>Computer Fundamentals in Digital Design</td>
<td>3</td>
</tr>
<tr>
<td>ET 140</td>
<td>Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ET 145</td>
<td>Advanced Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 193</td>
<td>Multivariable Calculus</td>
<td>5</td>
</tr>
<tr>
<td>MATH 184</td>
<td>Linear Algebra/Diff Equations</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 162</td>
<td>Engineering Physics 2</td>
<td>5</td>
</tr>
<tr>
<td>or PHYS 163</td>
<td>Engineering Physics 3</td>
<td>5</td>
</tr>
</tbody>
</table>

**Recommended electives:**

- ENGR 100 Introduction to Engineering 1
- ENGR 124 Excel for Science and Engineering 1
- ENGR 126 Matlab for Science and Engineering 1

For degree purposes, the natural science general education requirement will have been met by the major.

The associate degree in engineering technology provides a background for employment as a technician or engineering assistant in support of and under the direction of a professional engineer. The major industries of mining, construction, petroleum, manufacturing, transportation, communications and public utilities require engineering technologists.

The graduate of the AS program in engineering technology will:
- Develop graphic communication skills including orthographic projection; detail and assembly drawings; auxiliaries; sections; dimensioning; and surface development.
- Be able to use computer-aided drafting and design CADD software to create, modify, delete, transfer, and plot graphic files used to produce complete engineering drawings.
- Develop familiarity with the principles and application of engineering drawing, including, freehand sketching, pictorial drawings, engineering lettering, dimensioning, sections, auxiliary, surface finish, standard and geometric tolerancing, threads, and fasteners.
- Develop the ability to use advanced technical drawing techniques on a CAD system to solve design component problems requiring details and assemblies.

A major of 27 units is required for the associate in science degree.

**Required core courses (27 units):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS111</td>
<td>Fundamentals of Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>ET 100</td>
<td>Computer Aided Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>ET 111</td>
<td>Technical Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ET 140</td>
<td>Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ET 145</td>
<td>Advanced Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ET 330</td>
<td>Print Reading and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 141</td>
<td>General Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 142</td>
<td>General Physics 2</td>
<td>4</td>
</tr>
</tbody>
</table>

The associate degree in civil engineering technology provides a background for employment in a civil engineering office or for field work in support of and under the direction of a professional engineer. Typical employment is in surveying, field crews recording data to prepare subdivision maps, street and highway proposals and grading maps.

The graduate of the AS program in civil engineering will:
- Develop familiarity with the components, materials, types, and methods of building construction; terminology as applied to codes, foundations, concrete, light frame wood, heavy timber, soils, and the structural elements.
- Develop graphic communication skills including orthographic projection; detail and assembly drawings; auxiliaries; sections; dimensioning; and surface development.
- Become familiar with the origin, nature and application of the fundamental concepts and principles of physics and its application to the field of civil engineering technology.
- Become familiar with the principles of physical geology including the identification of rocks and minerals.
- Be able to interpret topographical and geological maps.
- Become familiar with land forms and structures.
- Become familiar with force systems and equilibrium condition and develop the ability to use these principles to solve engineering problems.
A major of 26 units is required for the associate in science degree.

**ENGINEERING TECHNOLOGY WITH EMPHASIS IN MECHATRONICS (A.S. & Certificate of Achievement)**

The associate in science degree or certificate option offer students a comprehensive program of study in the software, electronics, and mechanics of technologies used in automation (process control), robotics and machine design and maintenance.

The graduate of the AS or certificate program in mechatronics will:

- Demonstrate a fundamental mastery of knowledge and the use of electronic equipment in electrical, digital and analog circuits.
- Use computer simulation and design software to conduct, analyze and interpret electrical, digital and analog circuits.
- Make calculations involving various electrical laws, formulas and principles for predicting circuit parameters using algebra and trigonometry required for electronics.
- Use research strategies to acquire information pertinent to the solution of electronic circuits and systems.
- Write technical laboratory reports with conclusions.
- Demonstrate learned skills with a capstone project requiring you to design, build and evaluate a piece of electronic equipment.
- Apply current knowledge and adapt to emerging applications of automation and control.

A major of 52 units is required for the associate in science degree and certificate.

**ENGINEERING TECHNOLOGY - ENGINEERING DRAFTING (Certificate of Accomplishment)**

The certificate in engineering drafting is intended to prepare students for employment (or to transfer to a university) with a strong background in the mechanical areas of drawing, while also becoming a skilled operator of a CADD system.

The graduate of the certificate program in engineering drafting will:

- Develop graphic communication skills including orthographic projection; detail and assembly drawings; auxiliaries; sections; dimensioning; and surface development.
- Be able to use computer-aided drafting and design (CADD) software to create, modify, delete, transfer, and plot graphic files used to produce complete engineering drawings.
- Develop familiarity with principles and application of engineering drawing, including, freehand sketching, pictorial drawings, engineering lettering, dimensioning, sections, auxiliary, surface finish, standard and geometric tolerancing, threads, and fasteners.
- Develop the ability to use engineering handbooks, ordinances, codes and incorporate such regulations with engineering design and production decisions.
- Develop the ability to read engineering drawings and specifications.
- Develop the ability to understand the intent of the engineer by interpreting the relationship of the two-dimensional drawings with respect to the actual objects or projects.

Fifteen units constitute the certificate.

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**DEGREES & CERTIFICATES**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>ARCH 131</td>
<td>Materials of Construction 1</td>
<td>3</td>
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<tr>
<td>ET 111</td>
<td>Technical Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 152</td>
<td>Statics</td>
<td>3</td>
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<tr>
<td>GEOL 100</td>
<td>Physical Geology</td>
<td>4</td>
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<tr>
<td>MATH 181</td>
<td>Calculus 1</td>
<td>5</td>
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<tr>
<td>PHYS 141</td>
<td>General Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 142</td>
<td>General Physics 2</td>
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</tr>
</tbody>
</table>

**Required core courses (26 units):**

**ENGINEERING TECHNOLOGY WITH EMPHASIS IN MECHATRONICS (A.S. & Certificate of Achievement)**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 111</td>
<td>Fundamentals of Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CS 141</td>
<td>Computer Fundamentals in Digital Design</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EL 125</td>
<td>3</td>
</tr>
<tr>
<td>CS 142</td>
<td>Computer Fundamentals in Digital Design Lab</td>
<td>2</td>
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<tr>
<td>or</td>
<td>EL 126</td>
<td>2</td>
</tr>
<tr>
<td>EL/CEL/ET 104</td>
<td>Introduction to Robotics and Mechatronics</td>
<td>3</td>
</tr>
<tr>
<td>EL 111</td>
<td>Fundamentals of DC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>EL 112</td>
<td>Fundamentals of DC Circuit Analysis Lab</td>
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</tr>
<tr>
<td>EL 113</td>
<td>Fundamentals of AC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>EL 114</td>
<td>Fundamentals of AC Circuit Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>EL 122</td>
<td>Electronic Devices and Circuits</td>
<td>3</td>
</tr>
<tr>
<td>EL 123</td>
<td>Electronic Devices and Circuits Lab</td>
<td>2</td>
</tr>
<tr>
<td>ET 140</td>
<td>Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>EL 146</td>
<td>Electronic Product Design, Fabrication &amp; Documentation</td>
<td>2</td>
</tr>
<tr>
<td>MT 109</td>
<td>Survey of Machining</td>
<td>4</td>
</tr>
<tr>
<td>MT 330</td>
<td>Print Reading and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 306</td>
<td>3</td>
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<tr>
<td>SP 128</td>
<td>Materials and Processes</td>
<td>3</td>
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**Required core courses (12 units):**

**ENGINEERING TECHNOLOGY - ENGINEERING DRAFTING (Certificate of Accomplishment)**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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</thead>
<tbody>
<tr>
<td>ET 100</td>
<td>Computer Aided Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>ET 140</td>
<td>Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ET 145</td>
<td>Advanced Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ET 330</td>
<td>Print Reading and Interpretation</td>
<td>3</td>
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</tbody>
</table>

**Required core courses (12 units):**

**ENGINEERING TECHNOLOGY WITH EMPHASIS IN MECHATRONICS (A.S. & Certificate of Achievement)**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>EL/CEL/ET 128</td>
<td>Renewable Energy</td>
<td>3</td>
</tr>
<tr>
<td>EL/CEL/ET 131</td>
<td>Programmable Logic Controllers &amp; Industrial Control Design</td>
<td>3</td>
</tr>
<tr>
<td>EL/CEL/ET 133</td>
<td>Transducers and Sensors</td>
<td>3</td>
</tr>
<tr>
<td>EL105</td>
<td>PC Preventive Maintenance &amp; Upgrade</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EL 320</td>
<td>2</td>
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<tr>
<td>EL 106</td>
<td>Networking Essentials 1</td>
<td>3</td>
</tr>
<tr>
<td>EL 107</td>
<td>Networking Essentials 2</td>
<td>3</td>
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<tr>
<td>EL/CEL/ET 139</td>
<td>Electrical Power, Motors and Controls</td>
<td>3</td>
</tr>
<tr>
<td>EL/CEL/ET 162</td>
<td>Fluid Power and Control</td>
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</tr>
<tr>
<td>ET 100</td>
<td>Computer Aided Drafting and Design</td>
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<tr>
<td>MT 100</td>
<td>Machine Tool Practices</td>
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<tr>
<td>PHSC 111</td>
<td>Matter, Energy and Molecules</td>
<td>4</td>
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<tr>
<td>or</td>
<td>PHYS 100</td>
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<tr>
<td>or</td>
<td>PHYS 110</td>
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<tr>
<td>or</td>
<td>SP 104</td>
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<td>or</td>
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<tr>
<td>or</td>
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<tr>
<td>or</td>
<td>WLDT 307</td>
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<tr>
<td>or</td>
<td>WLDT 308</td>
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<tr>
<td>or</td>
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**Required core courses (12 units):**

**ENGINEERING TECHNOLOGY - ENGINEERING DRAFTING (Certificate of Accomplishment)**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>ET 100</td>
<td>Computer Aided Drafting and Design</td>
<td>3</td>
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<tr>
<td>ET 140</td>
<td>Engineering Drawing</td>
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</tr>
<tr>
<td>ET 145</td>
<td>Advanced Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ET 330</td>
<td>Print Reading and Interpretation</td>
<td>3</td>
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</table>

**Required core courses (12 units):**

**ENGINEERING TECHNOLOGY - ENGINEERING DRAFTING (Certificate of Accomplishment)**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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</thead>
<tbody>
<tr>
<td>ARCH 111</td>
<td>Architectural Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 121</td>
<td>Architectural Drawing 1</td>
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</tr>
<tr>
<td>ARCH 122</td>
<td>Architectural Drawing 2</td>
<td>4</td>
</tr>
<tr>
<td>ET 189</td>
<td>Independent Projects in Engineering Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

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ENGLISH (A.A.)
In today’s information society, reading comprehension and writing skills are essential for everyone. The English major offers a rich and varied education in these vital areas of literacy—serving the individual student, the academic community and society at large. The program includes courses in literature and critical thinking, reading and writing to enhance communication skills, to deepen understanding of our cultural traditions, to provide a breadth of knowledge appropriate for many degree and vocational programs and to prepare students for transfer to four-year institutions. English majors often enter fields such as law, education, public relations, human services, journalism and corporate communications. To ensure that their transfer objectives are being met, English majors should consult with a counselor.

The graduate of the AA program in English will:
• Be able to engage, with college level fluency, a variety of texts towards a variety of ends.

A major of 21 units is required for the associate in arts degree.

COURSE NUMBER TITLE UNITS
Required core course (3 units):
ENGL 102 Freshman Composition: Literature 3

Plus a minimum of 9 units selected from the following:
ENGL 130 American Literature of the 19th Century 3
ENGL 131 American Literature of the 20th Century 3
or
ENGL 145 English Literature to 1800 3
ENGL 146 English Literature 1800 to Present 3
(Any of the above courses not taken to meet the above requirement may be included among the selected units.)

Plus a minimum of 9 units selected from the following:
ENGL 104 Technical Writing 3
or
ENGL 110 Grammar for College & Career 3
ENGL 105 Language & Culture 3
ENGL 106 Creative Writing 3
ENGL 107 Literary Arts Journal 1 3
or
ENGL 108 Literary Arts Journal 2 3
ENGL 132 Literature and Film 3
ENGL 133 Modern Fiction 3
ENGL 135 Introduction to Poetry 3
ENGL 138 Introduction to Shakespeare 3
ENGL 139 Ideas of Difference in Contemporary American Literature 3
ENGL 144 Literature: The Ancient and Classical World 3
ENGL 148 Hispanic Literature in Translation 3

ENTREPRENEURSHIP (A.S.)
The objective of the A.S. Degree in Entrepreneurship is to help students obtain the comprehensive knowledge and skills necessary to become a successful entrepreneur. Both theoretical concepts and application of theory will be provided. The program will prepare students to start and operate a business by helping them to develop innovative ideas, evaluate business opportunities, write a business plan for a business startup, and promote an existing business. Students will develop an understanding of the complex tasks faced by individuals starting and sustaining a small business.

A graduate of the AS program in entrepreneurship will:
• Recall significant entrepreneurship issues, theories and applications.
• Apply entrepreneurship principles to produce work-based learning projects.
• Demonstrate the ability to follow instructions on assignments and class activities.

A major of 36 units is required for the associate in arts degree.

COURSE NUMBER TITLE UNITS
Semester 1 (Fall) Required Courses (9 units):
BUS 102 Marketing 3.0
CBOT/CBIS 337 Presentation Design PowerPoint 3.0
ENTR 101 Introduction to Entrepreneurship 3.0

Semester 2 (Spring) Required Courses (9 units):
BUS 106 Small Business Management 3.0
BUS 110 Business Law: Contracts and Sales 3.0
CBOT 333 Business Desktop Publishing 3.0

Semester 3 (Fall) Required Courses (9 units):
BUS 390 Business Entrepreneurship Law 3.0
BUS 111 Internet Marketing 3.0
ENTR 102 Entrepreneurship Projects 3.0

Semester 4 (Spring) Required Courses) (9 units):
ACCT 100 Survey of Accounting 3.0
or
ACCT 130 Financial Accounting 3.0
BUS 107 Human Relations in Business 3.0
ENTR 103 New Venture Laboratory 3.0

ENTREPRENEURSHIP - ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT (Certificate of Achievement)
The certificate of accomplishment in entrepreneurship and small business management is designed to help students gain the basic knowledge and skill necessary to become a successful entrepreneur. It provides foundation courses to prepare students to start and operate a small business.

The graduate of the certificate program in entrepreneurship and small business management will:
• Recall significant entrepreneurship issues, theories and applications.
• Apply entrepreneurship principles to produce work-based learning projects.
• Demonstrate the ability to follow instructions on assignments and class activities.

Seventeen and one half units constitute the certificate.

COURSE NUMBER TITLE UNITS
Semester 1 (Fall) Required Courses (10 units):
BUS 302 Essentials of Management 3
BUS 303 Sales and Marketing 3
BUS 366 Promoting a Small Business 3
BUS 377 Managing Service Quality 3
ENTR 101 Introduction to Entrepreneurship 3

Semester 2 (Spring) Required Courses (7.5 units):
BUS 364 Winning Business Plans 3
BUS 378 Effective Sales Methods 3
BUS 382 Advertising and Public Relations Strategies 3
BUS 390 Business Law: Entrepreneurship 3
ENTR 102 Entrepreneurship Projects 3

ENVIRONMENTAL TECHNOLOGY (A.S. & Certificate of Achievement)
The curriculum prepares students to enter the rapidly growing field of hazardous materials handling. Students desiring transfer to a four-year college or university should consult a counselor for specific transfer information.

The graduate of the AS or certificate program in environmental technology will:
• Identify and describe the principal laws and regulations applicable to hazardous materials handling inclusive of storage, disposal and release documentation.
• Describe hazardous material identification and recognition systems and identify their sources.
• Describe the process of workplace hazard/risk analysis for both chemical and non-chemical hazards.
DEGREES & CERTIFICATES

- Demonstrate the process to determine the need for and the appropriate level of worker protective devices associated with both chemical and physical hazards.
- Identify the parameters of individual and integrated industrial safety programs.
- Demonstrate the process of developing health and safety plans (i.e., Injury Illness and Prevention, Respiratory Protection, Heat Stress) in accordance with Title 8 of the California Code of Regulations and Title 29 of the Federal Code of Regulations.
- Describe major industrial pollution (air, water, and soil contaminants) point sources and their emissions.
- Describe the intent and the regulatory responsibilities of California's Certified Unified Program Agency.
- Describe permitting and reporting requirements of commercial hazardous materials users and waste generators.
- Describe California's Air Resources and Water Board's permitting and reporting requirements for discharges and potential discharges of air and water pollutants to the environment.
- Describe potential short term and long term impacts the mishandling of hazardous materials/wastes have on the environment, the economy, and society.
- Demonstrate the use of technical reference sources to describe signs and symptoms of chemical exposure.
- Differentiate between acute and chronic exposures to hazardous substances.
- Describe basic concepts of general biology.
- Describe basic concepts of general chemistry.

A major of 30 units is required for the associate in science degree or the certificate.

**COURSE NUMBER** | **TITLE** | **UNITS**
--- | --- | ---
Required core courses (30 units):
BIOL 120 | Any four-unit biology course | 4
BIOL 120 | Humans and the Environment | 3
CHEM 101 | Any four-unit chemistry course | 4
ENVT 101 | Introduction to Environmental Hazardous Materials | 3
ENVT 150 | Hazardous Materials-General Site Worker | 2
ENVT 151 | Hazardous Materials-Site Supervisor | 1
ENVT 152 | Identification & Assessment of Hazardous Materials | 3
ENVT 153 | Industrial Safety | 1
ENVT 154 | Monitoring and Sampling | 2
ENVT 155 | Respiratory Protection-Administration | 2
ENVT 156 | First Responder Operational | 1
ENVT 157 | First Aid for Haz Mat Workers | 1.5
ENVT 158 | Hazardous Waste Minimization and Emissions Reduction | 1
ENVT 159 | Hazardous Materials and Hazardous Waste Permitting | 1
ENVT 160 | Air and Water Pollution Permitting and Compliance | 2

For degree purposes, the natural science general education requirement will have been met by the major.

Recommended elective:
ENVT 199 | Special Topics in ENVT | .5-3

**ENVIRONMENTAL TECHNOLOGY - ENVIRONMENTAL HEALTH AND SAFETY TECHNICIAN (Certificate of Accomplishment)**

Technician-level training provides students with the knowledge and skills needed for entry into a wide range of careers related to environmental health and safety. Focus is on basic principles and techniques used to identify, evaluate and manage or eliminate hazards in the workplace.

The graduate of the certificate program in environmental health & safety technician will:
- Identify and describe the principle laws and regulations applicable to hazardous materials handling inclusive of storage, disposal and release documentation.
- Describe hazardous material identification and recognition systems and identify their sources.
- Describe the process of workplace hazard/risk analysis for both chemical and non-chemical hazards.
- Demonstrate the process to determine the need for and the appropriate level of worker protective devices associated with both chemical and physical hazards.
- Identify the parameters of individual and integrated industrial safety programs.
- Demonstrate the process of developing health and safety plans (i.e., Injury Illness and Prevention, Respiratory Protection, Heat Stress) in accordance with Title 8 of the California Code of Regulations and Title 29 of the Federal Code of Regulations.
- Describe major industrial pollution (air, water and soil contaminants) point sources and their emissions.
- Describe the intent and the regulatory responsibilities of California's Certified Unified Program Agency.
- Describe permitting and reporting requirements of commercial hazardous materials users and waste generators.
- Describe California's Air Resources and Water Board's permitting and reporting requirements for discharges and potential discharges of air and water pollutants to the environment.
- Demonstrate the use of technical reference sources to describe signs and symptoms of chemical exposure.
- Differentiate between acute and chronic exposures to hazardous substances.

Sixteen units constitute the certificate.

**COURSE NUMBER** | **TITLE** | **UNITS**
--- | --- | ---
Required core courses (16 units):
ENVT 150 | Hazardous Materials-General Site Worker | 2
ENVT 151 | Hazardous Materials-Site Supervisor | 1
ENVT 152 | Identification & Assessment of Hazardous Materials | 3
ENVT 153 | Industrial Safety | 1
ENVT 154 | Monitoring and Sampling | 2
ENVT 155 | Respiratory Protection-Administration | 2
ENVT 156 | First Responder Operational | 1
ENVT 157 | First Aid for Haz Mat Workers | 1.5
ENVT 158 | Hazardous Waste Minimization and Emissions Reduction | 1
ENVT 159 | Hazardous Materials and Hazardous Waste Permitting | 1
ENVT 160 | Air and Water Pollution Permitting and Compliance | 2

**FAMILY AND CONSUMER SCIENCES GENERAL (A.S.)**

The associate degree program in Family and Consumer Sciences (FCS), general option, prepares students to transfer to teacher education or career pathway programs at four-year schools and for productive family living and wise consumer decisions. Employment opportunities are as high school family and consumer sciences teachers or to work in businesses and agencies serving families. Students synthesize scientific and artistic information with regards to sociological and cultural perspective to make lifestyle changes that improve their quality of life.

The graduate of the AS program in family consumer sciences - general will:
- Synthesize and apply nutrition science information and culinary techniques and make lifestyle changes that improve health and promote longevity.
- Will analyze and direct their financial affairs with regards to short and long term plans.
• Will design and implement life management strategies and goals to improve their quality of life.
• Will integrate fashion principles, textile characteristics and personal style with marketing strategies to create and present projects and portfolios tailored to their chosen career.
• Will compare and contrast family and relationships dynamics from a sociological and cultural perspective.

A major of 23 units is required for the associate in science degree.

**COURSE NUMBER** | **TITLE** | **UNITS**
--- | --- | ---

Required core courses (23 units):

| BUS/ECON/ | FCS 130 Consumer and Family Finance | 3 |
| FCS/CA 120 | Principles of Foods 1 | 4 |
| FCS/CA 123 | Principles of Foods 2 | 2 |
| FCS 139 | Textiles | 3 |
| FCS 140 A | Apparel Construction | 2 |
| FSN 110 | Nutrition Science | 3 |

3 units selected from the following based on the university you are transferring to:

| FCS 138 | Personal and Professional Apparel Selection | 3 |
| PSY 118 | Human Development-Lifespan | 3 |

3 units selected from the following based on the university you are transferring to:

| ECS 100 | Early Child Development | 3 |
| ECS 101 | Child, Family, and Community | 3 |

**FAMILY AND CONSUMER SCIENCES - FASHION STUDIES (A.S. & Certificate of Achievement)**

The associate degree and certificate program in fashion studies prepares students to transfer to universities and technical schools of fashion and costume design. Students integrate fashion principles, textile characteristics and personal style with marketing strategies to create and present projects and a portfolio tailored to their chosen career. Job opportunities include working with the design, production and merchandising of clothing with large manufacturers or small specialty businesses.

The graduate of the AS or certificate program in fashion studies will:

• Integrate fashion principles with respect to industry changes and marketing strategies and present project.
• Apply design principles to fashion industry conditions to achieve personal style and present portfolio.
• Analyze textile characteristics for sensory appeal and present project.
• Differentiate historic fashion concepts with current design trends and display in portfolio.

Sixteen units is required for the certificate.

**COURSE NUMBER** | **TITLE** | **UNITS**
--- | --- | ---

Required core courses (16 units):

| BUS 103 | Advertising | 3 |
| FCS 137 | Fashion Industry and Marketing | 3 |
| FCS 138 | Professional and Personal Apparel Selection | 3 |
| FCS 139 | Textiles | 3 |
| FCS 144 | Historic Fashion/Costume | 3 |
| FCS 149 | Cooperative Work Experience: Occupational | 1 (related to Fashion Merchandising)

Recommended electives:

| BUS 102 | Marketing | 3 |
| BUS 377 | Managing Service Quality | .5 |
| BUS 378 | Effective Sales Methods | .5 |
| BUS 380 | Marketing Strategies | .5 |
| CBIS 101 | Computer Concepts and Applications | 3 |
| FCS 131 | Life Management | 3 |

**FAMILY AND CONSUMER SCIENCES - INTERIOR DESIGN MERCHANDISING (A.S. & Certificate of Achievement)**

The associate degree and certificate program in interior design merchandising prepares students to transfer to universities and technical schools of interior design and for immediate employment as specialty store salespersons, design product representatives or owners and managers of their own businesses. Students integrate design principles, textile characteristics and personal style with marketing strategies to create and present projects and a portfolio tailored to their chosen career. Job opportunities include working with the design, production and merchandising of interiors promotion and sales representatives.

The graduate of the AS or certificate program in interior design merchandising will:

• Integrate fashion principles with respect to industry changes and marketing strategies and present project.
• Analyze textile characteristics for sensory appeal and present project.
DEGREES & CERTIFICATES

- Create a portfolio and project using interior design elements and principles by selecting color and furniture combinations and placements which achieve the desired interior character and effect.
- Compare and contrast various types of window treatments, wall coverings, soft and hard surface floor coverings, paints, glass, metals, plastics, woods, fabrics and lighting fixtures. See business department for Business SLO's (BUS 102 103).

A major of 24 units is required for the associate in science degree and certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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</thead>
<tbody>
<tr>
<td>BUS 102</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 103</td>
<td>Advertising</td>
<td>3</td>
</tr>
<tr>
<td>FCS 137</td>
<td>Fashion Industry and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FCS 139</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>FCS 170</td>
<td>Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>FCS 171</td>
<td>Interior Design Materials</td>
<td>3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Design 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>Design 1 on the Computer</td>
<td>3</td>
</tr>
<tr>
<td>ART 112</td>
<td>Design Color Theory</td>
<td>3</td>
</tr>
<tr>
<td>ART 113</td>
<td>Three Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 121</td>
<td>Architectural Drawing 1</td>
<td>4</td>
</tr>
<tr>
<td>BUS 106</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>FCS 131</td>
<td>Life Management</td>
<td>3</td>
</tr>
<tr>
<td>FCS 149</td>
<td>Cooperative Work Experience:</td>
<td>1</td>
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<tr>
<td></td>
<td>Occupational</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(related to Interior Design Merchandising)</td>
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<tr>
<td>FCS 199</td>
<td>Special Topics in Family and Consumer</td>
<td>0.5-3</td>
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<tr>
<td></td>
<td>Science</td>
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<tr>
<td></td>
<td>(related to Interior Design Merchandising)</td>
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</tbody>
</table>

Plus a minimum of 6 units selected from the following:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 105</td>
<td>Film and Television Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>FILM 110</td>
<td>Introduction to Motion Picture and Video Production</td>
<td>4</td>
</tr>
<tr>
<td>FILM 111</td>
<td>Intermediate Motion Picture and Video Production</td>
<td>4</td>
</tr>
<tr>
<td>FILM/MMAC 125</td>
<td>Computer Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>FILM/MMAC 126</td>
<td>Motion Graphics for Multimedia and Film</td>
<td>3</td>
</tr>
<tr>
<td>PHTO 110</td>
<td>Basic Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

Required core courses (23 units):

FILM 101  Film as Art and Communication 3
or
FILM 107  History of World Cinema 3

Plus a minimum of 13 units selected from the following:

FILM 102  Hollywood and the American Film 3
FILM 103  Contemporary Latin American Cinema 3
FILM 106  Film and Television Writing 3
FILM 112  Studio Production 4
FILM 113  Producing and Directing Lab 2
ART/MMAC 115  Introduction to Animation 3
FILM 120  Introduction to Sound 3
FILM 121  Sound Production Techniques 3
FILM 123  Directing for the Camera 2
FILM/MMAC 127  DVD Design and Production 3
FILM 189  Independent Projects 1-3
FILM 199  Special Topics in Film 1-2
FILM 386  Film Festival Production 2
GRPH 111  Electronic Imagery Lab 1
GRPH 112  Basic Electronic Imagery 3
MMAC 101  Introduction to Multimedia Processes 2
MMAC 102  Introduction to Multimedia Lab 1

FIRE TECHNOLOGY (A.S. & Certificate of Achievement)

The fire technology degree/certificate program is designed to prepare those interested in a career in the fire service, either public or private, upgrade the skills of in-service fire personnel in their present positions or prepare in-service personnel for promotional opportunities.

The graduate of the AS or certificate program in fire technology will:
- Identify minimum qualifications and entry-level skills for firefighter hiring. The student will be able to describe the following elements: application process, written exam process; physical agility exam, oral interview, chief's interview; background investigation; and firefighter probationary process. Students will identify fire service history, culture and diversity.
- Describe the following elements: application process; written exam process; physical agility exam, oral interview; chief's interview; background investigation; and firefighter probationary process.
- Identify fire service history, culture and diversity.
- 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 mathematical 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.

A major of 30 units is required for the associate in science degree and the certificate.
The graduate of the certificate program in firefighter academy will:

- Define fire department organization and culture and the expectations of entry-level fire department personnel.
- Demonstrate knowledge of fire department equipment through the selection and application of equipment for given firefighting tasks.
- Analyze and assess firefighter hazards inherent to the profession.
- Demonstrate the ability to communicate effectively through multiple methods of communication including: written, electronic, face to face and radio-transmitted messages.
- Demonstrate their knowledge of strategies, tactics and incident command through the selection and implementation of firefighting methods and the application of the Emergency Command System.
- Demonstrate safe practices by using minimum standard safety procedures.

Twelve units constitute the certificate.

**GLOBAL STUDIES (A.A.)**

Global Studies is an interdisciplinary and cross-cultural approach to studying the trends of modern global society and events. Increasing connections and interdependencies among nations, institutions and peoples around the world direct our attention to globalization as a central phenomenon of the contemporary era. The goal of the Global Studies program is to provide students with a strong base of knowledge, methods and practical skills for the comparative analysis of social, political, economic, environmental and cultural dimensions of globalization processes. The articulated transfer major will prepare students for further studies toward a baccalaureate degree in international/global studies.

The graduate of the AA program in global studies will:

- Analyze important globalizing trends and their impact on the world’s cultures and the environment.
- Explain transnational economic processes affecting global decisions and events.
- Understand how globalization is affecting multiculturalism and the processes causing contemporary cultures to change.
- Explore the changing nature of political organizations and non-governmental organizations in the modern world system.
- Analyze the interdependence among people, groups, societies, governments and nations in finding solutions to current global problems and conflicts.
- Describe core civic values which generate socially responsible behavior at both local and global levels.

A major of 34 units is required for the associate in arts degree.

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**HUMAN SERVICES: GENERAL (A.S. & Certificate of Achievement)**

The associate degree/certificate program is for students preparing for or advancing their careers in social services, including those who plan to transfer to a four-year university and pursue a course of studies leading to a masters in social work and licensure as a clinical social worker. Students may go to work in a social services agency upon completing this certificate or associate degree, or they may use it as a foundation for further study. The general course of study offers future career flexibility because graduates are not committed to a specialty area (such as addiction studies).
The graduate of the AS or certificate program in human services – general will:

- Possess knowledge and skills that will enable them to competently and ethically carry out the duties and responsibilities of jobs in the general human or social service field. The knowledge and skills that they will possess fall under the following three rubrics: (1) Interpersonal Helping Skills; (2) Ethics and Boundaries; and (3) Documentation.

- Interpersonal Helping Skills: Graduates will possess interpersonal skills required to engage empathically with clients, develop safe and trusting relationships with them, assess their strengths and problems and recommend appropriate interventions and/or referrals. They will demonstrate the ability to manifest the core conditions of helping relationships, including empathy, non-possessive warmth, genuineness and congruence. They will recognize the importance of the family and societal contexts in which their clients live and utilize this information in providing helping services.

- Ethics and Boundaries: Graduates will be familiar with a professional association’s code of ethics and demonstrate the ability to behave in accord with it. They will be able to define appropriate professional relationship boundaries and detect when these boundaries are crossed or violated. They will be able to maintain client confidentiality and know the conditions under which confidentiality must be broached. They will demonstrate an understanding of the principles of culturally competent practice.

- Documentation: Graduates will demonstrate the ability to create and maintain appropriate client documentation, including intake notes, service or treatment plans, progress notes, discharge notes and other documentation such as informed consent and release of information forms.

A major of 28 units is required for the associate in science degree and certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>FCS 131</td>
<td>Life Management</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 101</td>
<td>Becoming a Helping Professional</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 102</td>
<td>Case Management of Diverse Clients</td>
<td>3</td>
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<tr>
<td>HUSV 103</td>
<td>Basic Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 105</td>
<td>Practicum Seminar</td>
<td>2</td>
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<tr>
<td>or</td>
<td>HUSV 121</td>
<td>Fieldwork Supervision-Human Services</td>
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<tr>
<td>HUSV 106</td>
<td>Family Systems, Addiction and Trauma</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 108</td>
<td>Crisis Intervention Strategies</td>
<td>3</td>
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<tr>
<td>HUSV 120</td>
<td>Human Services Practicum</td>
<td>2</td>
</tr>
</tbody>
</table>

Plus a minimum of 6 units selected from the following:

- HUSV 104 Group Dynamics
- HUSV 107 Serving Culturally Diverse Clients
- HUSV 110/ SOC 106/ PSY 106 Alcohol, Drugs, and Addiction
- PSY 112 Human Sexuality
- PSY 118 Human Development-Lifespan

**HUMAN SERVICES - ADDICTION STUDIES (A.S. & Certificate of Achievement)**

This associate degree/certificate program is for students preparing for or advancing their careers in the growing field of drug and alcohol dependency treatment, prevention and education. The certificate program is accredited by the California Association of Alcohol and Drug Educators (CAADAE) and provides the educational components necessary to become a Certified Addiction Treatment Specialist through CAADAE or the California Association of Alcoholism and Drug Abuse Counselors (CAADAC).

The graduate of the AS or certificate program in addiction studies will:

- Possess knowledge and skills that will enable them to competently and ethically carry out the duties and responsibilities of jobs as addiction counselors or other positions in the addiction treatment and recovery field. The knowledge and skills that they will possess fall under the following four rubrics: (1) Interpersonal Helping Skills; (2) Ethics and Boundaries; (3) Documentation; and (4) Professional Certification Preparation.

- Interpersonal Helping Skills: Graduates will possess interpersonal skills required to engage empathically with clients who have substance use problems, develop safe and trusting relationships with them, assess their strengths and problems and recommend appropriate interventions and/or referrals. They will demonstrate the ability to manifest the core conditions of helping relationships, including empathy, non-possessive warmth, genuineness and congruence. They will recognize the importance of the family and societal contexts in which their clients live and utilize this information in providing helping services. They will be skillful in both individual and group counseling contexts.

- Ethics and Boundaries: Graduates will be familiar with a professional association’s code of ethics and demonstrate the ability to behave in accord with it. They will be able to define appropriate professional relationship boundaries and detect when these boundaries are crossed or violated. They will be able to maintain client confidentiality and know the conditions under which confidentiality must be broached. They will demonstrate an understanding of the principles of culturally competent practice.

- Documentation: Graduates will demonstrate the ability to create and maintain appropriate client documentation, including intake notes, service or treatment plans, progress notes, discharge notes and other documentation such as informed consent and release of information forms.

- Professional Certification Preparation: Graduates will possess the knowledge, skills and attitudes recommended in Technical Assistance Publication 21 (TAP 21, Addiction Counseling Competencies), published by the U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration. They will be prepared to successfully pass a written examination leading to certification as an addiction counselor, and they will have completed at least 250 supervised work hours in the addiction treatment field in partial fulfillment of the supervised work experience requirement for certification.

A major of 42 units is required for the associate in science degree and certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
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<tbody>
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<td>FCS 131</td>
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<td>HUSV 101</td>
<td>Becoming a Helping Professional</td>
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</tr>
<tr>
<td>HUSV 102</td>
<td>Case Management of Diverse Clients</td>
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<td>HUSV 103</td>
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<td>Practicum Seminar</td>
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<tr>
<td>or</td>
<td>HUSV 131</td>
<td>Fieldwork Supervision-Addiction Studies</td>
</tr>
<tr>
<td>HUSV 106</td>
<td>Family Systems, Addiction and Trauma</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 108</td>
<td>Crisis Intervention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 110/ SOC 106/ PSY 106 Alcohol, Drugs, and Addiction</td>
<td>3</td>
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<tr>
<td>HUSV 111</td>
<td>Addiction Treatment and Recovery</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 124</td>
<td>Substance Abuse Prevention and Education</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>HUSV 142</td>
<td>Co-occurring Disorders-Assessment</td>
</tr>
<tr>
<td>HUSV 130</td>
<td>Addiction Studies Practicum</td>
<td>4</td>
</tr>
<tr>
<td>HUSV/PSY 132</td>
<td>Drugs, the Brain and the Body</td>
<td>3</td>
</tr>
</tbody>
</table>
Graduates will possess the ability to:

- Present knowledge and skills that will enable them to competently and ethically carry out the duties and responsibilities of jobs in the human or social service field that involve families and children.
- Present knowledge and skills that they will possess fall under the following three rubrics: (1) Interpersonal Helping Skills; (2) Ethics and Boundaries; and (3) Documentation.
- Interpersonal Helping Skills: Graduates will possess interpersonal skills required to engage empathically with clients and their families, develop safe and trusting relationships with them, assess their strengths and problems and recommend appropriate interventions and/or referrals. They will demonstrate the ability to maintain appropriate professional relationship boundaries and detect when these boundaries are crossed or violated. They will be able to maintain client confidentiality and know the conditions under which confidentiality must be broached. They will demonstrate an understanding of the principles of culturally competent practice.
- Ethics and Boundaries: Graduates will be familiar with a professional association's code of ethics and demonstrate the ability to behave in accord with it. They will be able to define appropriate professional relationship boundaries and detect when these boundaries are crossed or violated. They will be able to maintain client confidentiality and know the conditions under which confidentiality must be broached. They will demonstrate an understanding of the principles of culturally competent practice.
- Documentation: Graduates will demonstrate the ability to create and maintain appropriate client documentation, including intake notes, service or treatment plans, progress notes, discharge notes and other documentation such as informed consent and release of information forms.

Thirty-one units constitute the certificate.

COURSE NUMBER TITLE UNITS

Required core courses (25 units):

FCS 131 Life Management 3
HUSV 101 Becoming a Helping Professional 3
HUSV 102 Case Management of Diverse Clients 3
HUSV 103 Basic Counseling Skills 3
HUSV 106 Family Systems, Addiction and Trauma 3
HUSV 108 Crisis Intervention Strategies 3
HUSV 113 Women and Addiction 3
HUSV 150 Family Studies Practicum 2
HUSV 105 Fieldwork Supervision 2
or
HUSV 151 Fieldwork Supervision-Family Studies 2

Plus a minimum of 6 units selected from the following:

ECS 101 Child, Family and Community 3
ECS 114 Parent/Child Relationships 3
FCS/FSN 109 Basic Nutrition for Health 3
FCS 130 Consumer and Family Finance 3
HUSV 107 Serving Culturally Diverse Clients 3
HUSV 189 Independent Projects in Human Services 1-3
SOC 110 Personal and Family Relationships in the 21st Century 3

HUMAN SERVICES - CO-OCCURRING DISORDERS (Certificate of Achievement)

This certificate program is designed for students preparing for or advancing their careers in social services, mental health or addiction treatment where it is beneficial to possess knowledge of the special needs of persons with both mental illness and substance use disorders. Persons with co-occurring disorders, also called "dual diagnosis" or "dual disorders," have long been overlooked or underserved by the traditionally separated mental health and addiction treatment fields, but a movement is underway in many agencies, including Santa Barbara County's drug, alcohol and mental health services, resulting in sweeping changes in how all clients and their needs are conceptualized and how services are coordinated and integrated. A certificate in this field will put graduates in the forefront of this movement and may significantly enhance opportunities for employment or promotion.

The graduate of the certificate program in co-occurring disorders will:

- Possess knowledge and skills that will enable them to competently and ethically carry out the duties and responsibilities of jobs in the specialized settings with clients who have complex and multiple needs as the result of having one or more substance use disorders and one or more mental disorders occurring together. The knowledge and skills that they will possess fall under the following three rubrics: (1) Interpersonal Helping Skills; (2) Ethics and Boundaries; and (3) Documentation.
- Interpersonal Helping Skills: Graduates will possess interpersonal skills required to engage empathically with clients who have co-occurring disorders, develop safe and trusting relationship-ship with them, assess their strengths and problems and recommend appropriate interventions and/or referrals. They will demonstrate the ability to manifest the core conditions of helping relationships, including empathy, non-possessive warmth, genuineness and congruence. They will recognize the importance of the family and societal contexts in which their clients live and utilize this information in providing helping services. They will understand the importance of, and demonstrate the ability to work as part of, a comprehensive, continuous, integrated system of care.
- Ethics and Boundaries: Graduates will be familiar with a professional association's code of ethics and demonstrate the ability to behave in accord with it. They will be able to define appropriate professional relationship boundaries and detect when these boundaries are crossed or violated. They will be able to maintain client confidentiality and know the conditions under which confidentiality must be broached. They will demonstrate an understanding of the principles of culturally competent practice.
- Documentation: Graduates will demonstrate the ability to create and maintain appropriate client documentation, including intake notes, service or treatment plans, progress notes, discharge notes and other documentation such as informed consent and release of information forms.

Forty-seven to forty-nine units constitute the certificate.

COURSE NUMBER TITLE UNITS

Required core courses (44-46 units):

FCS 131 Life Management 3
HUSV 101 Becoming a Helping Professional 3
HUSV 102 Case Management of Diverse Clients 3
HUSV 103 Basic Counseling Skills 3
HUSV 104 Group Dynamics 3
HUSV 106 Family Systems, Addiction and Trauma 3
HUSV 108 Crisis Intervention Strategies 3
HUSV 110/ SOG 106/ PSY 106 Crisis Intervention Strategies 3
HUSV 111 Addiction Treatment and Recovery 3
HUSV 130 Addiction Studies Practicum 4
**HUMAN SERVICES - FAMILY SERVICES WORKER 1 (Certificate of Achievement)**

These three certificates provide the knowledge and skills necessary for entry level employment and career advancement in the Community Action Commission (CAC) of Santa Barbara County's Family Services Aide position. In addition, the courses can be applied to other degrees or certificates in Human Services and early Childhood Studies. The certificates include Family Services Worker 1, Family Services Worker 2 and Family Services Worker 3.

The graduate of the certificate program in family services worker 1, 2 or 3 will:

- Possess knowledge and skills that will enable them to competently and ethically carry out the duties and responsibilities of jobs in the Community Action Commission, a Santa Barbara County non-profit social service agency. The knowledge and skills that they will possess fall under the following three rubrics: (1) Interpersonal Helping Skills; (2) Ethics and Boundaries; and (3) Documentation.
  - **Interpersonal Helping Skills**: Graduates will possess interpersonal skills required to engage empathically with clients, develop safe and trusting relationships with them, assess their strengths and problems and recommend appropriate interventions and/or referrals. They will demonstrate the ability to manifest the core conditions of helping relationships, including empathy, non-possession of warmth, genuineness, and congruence. They will recognize the importance of the family and societal contexts in which their clients live and utilize this information in providing helping services.
  - **Ethics and Boundaries**: Graduates will be familiar with a professional association's code of ethics and demonstrate the ability to behave in accord with it. They will be able to define appropriate professional relationship boundaries and detect when these boundaries are crossed or violated. They will be able to maintain client confidentiality and know the conditions under which confidentiality must be broached. They will demonstrate an understanding of the principles of culturally competent practice.
  - **Documentation**: Graduates will demonstrate the ability to create and maintain appropriate client documentation, including intake notes, service or treatment plans, progress notes, discharge notes and other documentation such as informed con-sent and release of information forms.

Fifteen units constitute the certificate.

**DEGREES & CERTIFICATES**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSV 132</td>
<td>Drugs, the Brain and the Body</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 140</td>
<td>Co-occurring Disorders Practicum</td>
<td>2</td>
</tr>
<tr>
<td>HUSV/PSY 142</td>
<td>Co-occurring Disorders: Concepts and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>HUSV/PSY 143</td>
<td>Co-occurring Disorders: Management and Treatment</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 3 units selected from the following:

- FCS/FSN 112 Nutrition, Weight Management, and Eating Disorders 3
- HUSV 107 Serving Culturally Diverse Clients 3
- HUSV 113 Women and Addiction 3

Recommended electives:

- HUSV 122 States of Consciousness 3

**HUMAN SERVICES - FAMILY SERVICES WORKER 2 (Certificate of Achievement)**

Seven units selected from the following courses constitute the certificate.

**DEGREES & CERTIFICATES**

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSV 108</td>
<td>Crisis Intervention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 109</td>
<td>Positive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 110</td>
<td>Meditation, Mindfulness, and Relaxation</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 112</td>
<td>Gentle Comm Skills for Change</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 113</td>
<td>Life Management</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 114</td>
<td>Twelve Step Facilitation</td>
<td>3</td>
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**HUMAN SERVICES - FAMILY SERVICES WORKER 3 (Certificate of Achievement)**

Nine units selected from the following courses constitute the certificate.

**DEGREES & CERTIFICATES**

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<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSV 112</td>
<td>Gentle Comm Skills for Change</td>
<td>3</td>
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<tr>
<td>HUSV 113</td>
<td>Life Management</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 114</td>
<td>Twelve Step Facilitation</td>
<td>3</td>
</tr>
</tbody>
</table>

**LAW ENFORCEMENT – BASIC LAW ENFORCEMENT ACADEMY**

(Certificate of Accomplishment)

39 hours lecture, 9.5 hours lab weekly. (Total: 777 hours) Limitation on enrollment: Admission by application.

An intensified course designed to satisfy all State of California requirements for basic police recruit training. Presented in an environment of serious study, rigorous physical training and standard law enforcement disciplinary procedures, the course is open to working peace officers and other interested students.

The graduate of the certificate program in basic law enforcement academy will:

- Develop and demonstrate a broad range of law enforcement skills including, but not limited to, proficiency with firearms, high speed driving, martial arts/arrest and control techniques and practical field problem scenarios.
- Develop and demonstrate a high level of physical fitness and agility through a rigorous program of daily conditioning activities.
- Study for and pass all State of California POST exams and other State requirements for graduation from a certified law enforcement academy.
- Develop and demonstrate the ability to recite, on demand, all the State of California vehicle, penal, health and safety codes, and other federal and state codes as deemed necessary.
- Develop and demonstrate a high level of integrity, maturity, emotional control and moral character as required of a California peace officer.

Completion of Law Enforcement 320 or 322 meets the requirements necessary to obtain a certificate of accomplishment.

Fourteen units constitute the certificate.
LIBERAL ARTS – Non Transfer Option
The Associate Degree in Liberal Arts is designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in an “Area of Emphasis.” The curriculum in liberal arts allows students to develop an appreciation of the beauty and values that have shaped and enriched our culture.

The graduate of the AA program in liberal arts (non transfer) will:
- Complete Allan Hancock College AA degree General Education, Graduation and Proficiency Requirements 21-30 units.
- Complete 18 units in one “Area of Emphasis” from those listed below.
- Complete a total of 60 associate degree applicable units.

LIBERAL ARTS - ARTS & HUMANITIES (A.A.)
Courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will 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 will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments.

The graduate of the AA program in liberal arts (non transfer) – arts and humanities will:
- Develop an ability to identify artwork from various periods and styles.
- Students will develop an appreciation for the importance of art in society, and to recognize the ways art can affect and/or reflect cultural, political and humanistic issues.
- Develop an individual aesthetic sensitivity.
- Understand western and non-western works of philosophical, historical, literary, aesthetic and cultural importance.
- Produce or respond to artistic and creative expression.

LIBERAL ARTS (NON TRANSFER) – MATHEMATICS & SCIENCE (A.A.)
Courses emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in mathematics 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 will also examine the influence that the acquisition of scientific knowledge has on the development of the world’s civilizations.

The graduate of the AA program liberal arts (non transfer) - mathematics & sciences will:
- Demonstrate an ability to think logically and critically in solving problems; explaining conclusions; and evaluating, supporting or critiquing the thinking of others.
- Students will develop the use of logical thought, clear and precise expression, and require critical evaluation of communication in whatever symbol system the student uses.
- Understand the facts and principles that form the foundations of living and non-living systems.
- Understand experimental methodology, the testing of hypothesis, the power of systematic questioning and the influence of the scientific method on the world’s civilizations.

LIBERAL ARTS – Transfer Option
The associate degree in liberal arts is designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in an “Area of Emphasis.” The curriculum in liberal arts allows students to develop an appreciation of the beauty and values that have shaped and enriched our culture. In addition, the curriculum can also prepare students to transfer to four year institutions.

The graduate of the AA program in liberal arts (transfer) will:
- Complete either option A or B below for the general education pattern which relates to your educational goal. Students should consult with a counselor to determine which general education pattern is appropriate.
- Complete 18 units in one “Area of Emphasis” from those listed below.
- Complete a total of 60 associate degree applicable units.

General Education Patterns
A. California State University Education/Breadth (CSU GE) 39-40 units
B. Intersegmental General Education Transfer Curriculum (IGETC) 34-37 units

LIBERAL ARTS - ARTS & HUMANITIES (A.A.)
Courses emphasize the study of cultural, literary and humanistic activities and artistic expression of human beings. Students will 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 will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments.

The graduate of the AA program in liberal arts (transfer) – arts & humanities will:
- Develop an appreciation of the beauty and values that have shaped and enriched our culture.
- Understand 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.
- Develop an appreciation for the importance of art in society, to recognize the ways art can affect and/or reflect cultural, political and humanistic issues.
- Develop an individual aesthetic sensitivity.
- Understand the interrelationship between the creative arts, the humanities and self.
- Develop the ability to identify artwork from various periods and styles.

Eighteen units with a minimum of two courses in arts and two courses in humanities.
Arts
ART 101, 103, 104, 105, 106, 110, 115, 120, 121, 122, 123, 125, 126, 127, 128, 160, 161, 163, 164, 165
DANC 101, 110, 120, 130
DRMA 103, 104, 110, 111
FCS 144
FILM 101, 102, 110, 115
GRPH 110
MUS 100, 101, 102, 104, 106, 110
PHI 110
Humanities
ASL 121, 138
ENGL 102, 106, 130, 131, 132, 133, 135, 137, 138, 139, 143, 145, 146, 148
FILM 103
FRCH 101, 102
HIST 101, 102, 104, 105
ITAL 101, 102, 103, 104
PHIL 101, 102, 105, 121, 122
SPAN 101, 102, 103, 104, 112, 120, 121, 148
SPCH 108

LIBERAL ARTS – MATHEMATICS & SCIENCE (A.A.)
Courses emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in mathematics emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an ability to think logically and critically in solving problems; explaining conclusions; and evaluating, supporting or critiquing the thinking of others. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

The graduate of the AA program in liberal arts (transfer) - mathematics & sciences will:
- Develop an appreciation of the beauty and values that have shaped and enriched our culture.
- Understand ways people have acted in response to their societies.
- Develop individual responsibility, personal integrity and respect for diverse people and culture.
- Understand the past in order to understand and analyze present and future issues, problems and projects.

Eighteen units with a minimum of one course in three different areas

Anthropology
ANTH 102, 103
Economics
BUS 121, 141
ECON 101, 102, 121, 141
GBST 141
Geography
GEOG 102, 103, 105
History
HIST 103, 107, 108, 118, 119, 120
HUM 103
Political Science
POLS 101, 103, 104
Psychology
PSY 101, 104, 112, 113, 115, 117, 118
Sociology
SOC 101, 102, 104, 110, 120
Speech
SPCH 103, 110

LIBERAL STUDIES – ELEMENTARY TEACHER PREPARATION (A.A.)
The associate of arts degree in liberal studies - elementary teacher preparation is designed to provide students who intend to enroll in a baccalaureate teacher preparation program with a pattern of coursework necessary to transition into upper division course requirements. The program develops competencies in critical thinking and communication, both spoken and written, and incorporates the elementary subject matter requirements established by the California Commission on Teaching Credentialing.

Complete the prescribed pattern of general education courses (23 units).
Complete the major core requirements (29 units).
Complete a total of 60 associate degree applicable units.

Required general education courses (23 units):
Category 1: Natural Sciences
BIOL 100 (4 units)
Category 2: Human Institutions
A. Social Science
GEOG 103 (3 units) - also fulfills Multicultural/Gender Studies requirement
B. American History or Government
HIST 107 (3 units)
Category 3: Humanities
HIST/HUM 101 (3 units)
DEGREES & CERTIFICATES 100 DEGREES & CERTIFICATES

Category 4: Language and Rationality
A. Written Composition
ENGL 101 (4 units)
B. Communication and Analytical Thinking
ENGL 103 or PHIL 112 or PHIL 114 or SPCH 106 (3 units)

Category 5: Living Skills
HED 100 (3 units) - also fulfills Health/Physical Education requirement

Associate Degree Major Core Requirements
Students are also required to complete the following courses as part of the Liberal Studies – Elementary Teacher Preparation program.

Required core courses (29 units):
ART 101 or DANC 101 or DRMA 103 or MUS 100 (3 units)
ECS 100 (3 units)
EDUC 130 (3 units)
SPCH 101 (3 units)
POLS 103 (3 units)
ENGL 102 (3 units)
PHSC 111 (4 units)
PHSC 112 (4 units)
MATH 105 OR MATH 131 OR MATH 135 OR MATH 141 OR MATH 181 (3-5 units) - also fulfills math proficiency requirement

Recommended electives:
CBIS 101 (3 units)
HIST 119 (3 units)
MATH 123 (4 units)
PYS 117 (3 units)
PHIL 102 OR PHIL 105 (3 units)

Please see a counselor for specific CSU campus requirements.

MACHINE TECHNOLOGY - GENERAL MACHINING (A.S. & Certificate of Achievement)
Machine technology is the study of the methods and materials that modern manufacturing utilizes to create, modify and repair the objects that our society needs to function. The machine technology program, general machining option, supplies the student with a hands-on education that takes them from the basics of precision machine tool operation to the programming of Computer Numerical Controlled (CNC) machine tools.

The graduate of the AS or certificate program in general machining will:
- Demonstrate the ability to clearly communicate with coworkers, customers and the employer through verbal and written means.
- Demonstrate the ability to read and interpret engineering data such as specifications and drawings and use this data to produce precision machined parts and components that conform to the supplied data.
- Demonstrate the ability to safely and efficiently operate manual machine tools.
- Demonstrate the ability to identify and properly deal with hazards encountered in the workplace.

A major of 33 units is required for the associate in science degree.

*** Required core courses (17 units): 

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 109</td>
<td>Survey of Machining</td>
<td>4</td>
</tr>
<tr>
<td>MT 110</td>
<td>CNC Principles and Practices</td>
<td>4</td>
</tr>
<tr>
<td>MT 330</td>
<td>Print Reading and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>MT 381</td>
<td>Industrial Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>WLDT 106</td>
<td>Beginning Welding</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus 16 units in the following area of specialization:

<table>
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<tr>
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<th>UNITS</th>
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</thead>
<tbody>
<tr>
<td>MT 315 ABCD</td>
<td>Industrial Machining</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Production Machining</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>General Machining</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Maintenance Machining</td>
<td>4</td>
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</tbody>
</table>

MACHINE TECHNOLOGY - MAINTENANCE MACHINING (A.S. & Certificate of Achievement)
Productivity increases in industry are based on increasing the quantity and quality of machined parts and assemblies. The Machine Technology program, Maintenance Machining option, supplies the student with a hands-on education that takes them from the basics of precision machine tool operation to the programming of Computer Numerical Controlled (CNC) machine tools with an emphasis on equipment maintenance and repair.

The graduate of the AS or certificate program in maintenance machining will:
- Demonstrate the ability to clearly communicate with coworkers, customers and the employer through verbal and written means.
- Demonstrate the ability to read and interpret engineering data such as specifications and drawings and use this data to produce precision machined parts and components that conform to the supplied data.
- Demonstrate the ability to safely and efficiently operate manual machine tools.
- Demonstrate the ability to safely and efficiently program and operate Computer Numerical Controlled (CNC) machine tools.
- Demonstrate the ability to identify and properly deal with hazards encountered in the workplace.

A major of 33 units is required for the associate in science degree.

*** Required core courses (17 units): 

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<td>MT 110</td>
<td>CNC Principles and Practices</td>
<td>4</td>
</tr>
<tr>
<td>MT 330</td>
<td>Print Reading and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>MT 381</td>
<td>Industrial Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>WLDT 107</td>
<td>Advanced Welding</td>
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</tbody>
</table>

Plus 16 units in the following area of specialization:

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<td>Production Machining</td>
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<td></td>
<td>General Machining</td>
<td>4</td>
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<td></td>
<td>Maintenance Machining</td>
<td>4</td>
</tr>
</tbody>
</table>

MACHINE TECHNOLOGY - PRODUCTION MACHINING (A.S. & Certificate of Achievement)
Productivity increases in industry are based on increasing the quantity and quality of machined parts and assemblies. The Machine Technology program, production Machining option, supplies the student with a hands-on education that takes them from the basics of precision machine tool operation to the programming of Computer Numerical Controlled (CNC) machine tools with an emphasis on high productivity machining.

The graduate of the AS or certificate program in production machining will:
- Demonstrate the ability to clearly communicate with coworkers, customers and the employer through verbal and written means.
- Demonstrate the ability to read and interpret engineering data such as specifications and drawings and use this data to produce precision machined parts and components that conform to the supplied data.
- Demonstrate the ability to identify increases in productivity through improved output and quality.
- Demonstrate the ability to safely and efficiently operate manual machine tools.
DEGREES & CERTIFICATES

- Demonstrate the ability to safely and efficiently program and operate Computer Numerical Controlled (CNC) machine tools.
- Demonstrate the ability to identify and properly deal with hazards encountered in the workplace.

A major of 27 units is required for the associate in science degree.

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<tr>
<td></td>
<td>Maintenance Machining</td>
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</table>

MATHEMATICS WITH COMPUTER SCIENCE EMPHASIS (A.A.)

The associate in arts degree in math is offered for those students desiring a major in mathematics and recognition of their general education accomplishments.

The graduate of the AA program in mathematics with a computer science emphasis will:
- Interpret and draw inferences from mathematical models such as formulas, graphs, tables and schematics.
- Represent mathematical informationsymbolically, visually, numerically, verbally and in writing.
- Utilize a variety of problemsolving techniques and strategies to identify, analyze and solve problems from arithmetic through calculus.
- Estimate and check mathematical results for reasonableness.
- Create and analyze mathematical models of real world and/or theoretical situations, including the implications and limitations of those models.
- Use appropriate technologies to analyze and solve mathematical problems and verify the appropriateness and reasonableness of the solution(s).

A major of 27 units is required for the associate in arts degree.

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<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>CS 111</td>
<td>Fundamentals of Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CS 161</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 181</td>
<td>Calculus 1</td>
<td>5</td>
</tr>
<tr>
<td>MATH 182</td>
<td>Calculus 2</td>
<td>5</td>
</tr>
<tr>
<td>MATH 183</td>
<td>Multivariable Calculus</td>
<td>5</td>
</tr>
<tr>
<td>MATH 184</td>
<td>Linear Algebra/Diff Equations</td>
<td>5</td>
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</tbody>
</table>

MATHEMATICS WITH PHYSICS EMPHASIS (A.A.)

The associate in arts degree in math is offered for those students desiring a major in mathematics and recognition of their general education accomplishments.

The graduate of the AA program in mathematics with a physics emphasis will:
- Use appropriate technologies to analyze and solve mathematical problems, and verify the appropriateness and reasonableness of the solution(s).

A major of 30 units is required for the associate in arts degree.

<table>
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<tr>
<th>COURSE NUMBER</th>
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<tbody>
<tr>
<td>MATH 181</td>
<td>Calculus 1</td>
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<td>MATH 182</td>
<td>Calculus 2</td>
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<td>Multivariable Calculus</td>
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<td>MATH 184</td>
<td>Linear Algebra/Diff Equations</td>
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<tr>
<td>PHYS 161</td>
<td>Engineering Physics 1</td>
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<tr>
<td>PHYS 162</td>
<td>Engineering Physics 2</td>
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<tr>
<td>PHYS 163</td>
<td>Engineering Physics 3</td>
<td>5</td>
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MEDICAL ASSISTING (Certificate of Achievement)

The medical assisting program consists of a medical assisting certificate and an optional medical billing and coding certificate. The Medical Billing and Coding certificate courses may be taken as an option by the Medical Assisting Program students, thereby obtaining both a Medical Assisting Certificate and a Billing and Coding Certificate. Courses may be taken separately to obtain Medical Billing and Coding certificate only. A grade of “C” or better is required in all classes to progress in the program. To be admitted to the medical assisting certificate program, the student must obtain the official application forms and follow the outlined procedures for enrollment. Upon completion of the medical assisting certificate, the student is qualified to take the certifying examination by the California Certifying Board for Medical Assistants.

The graduate of the certificate program in medical assisting will:
- Develop communication skills necessary to effectively communicate with other health care team members, patients and physicians.
- Function in a legal and ethical manner.
- Demonstrate clinical skills appropriate to the medical assistant scope of practice.
- Demonstrate administrative skills appropriate to the medical assistant scope of practice.
- Apply customer service concepts and principles in providing quality care.
- Recognize and respond to written, verbal and nonverbal communication concepts and principles in gathering assessment data, providing documentation and implementing quality care.
- Demonstrate respect for the human dignity and rights of all individuals with awareness of cultural differences.
- Demonstrate responsibility and accountability for personal and professional behavior.
- Utilize critical thinking and decision making skills when providing clinical and administrative service in health settings.
- Develop a knowledge base of medical terminology, physiological function and biochemical function to competency carry out the role of a medical assistant.

Thirty-one units constitute the certificate.
MUSIC (A.A.)
The music major fulfills lower-division requirements for students planning to transfer to a four-year college or university culminating in employment in the areas of music teaching, music performance and many other related fields of the music industry. In addition, the associate in arts degree will benefit those students seeking employment in the commercial music industry (e.g., merchandising, club-date performance, recording, church music positions, public recreation departments, private teaching). All music majors are required to take one performance class each semester. The graduate of the AA program in music will:

- Perform as a member of an instrumental or vocal ensemble.
- Analyze and notate music using traditional Western music notation, theory and harmony.
- Recognize and describe the key figures and the breadth of achievement in Western music history.

A major of 32 units is required for the associate in arts degree.

Medical Assisting - Medical Billing & Coding (Certificate of Achievement)
The medical assisting program consists of a medical assisting certificate and an optional medical billing and coding certificate. The Medical Billing and Coding certificate courses may be taken as an option by the Medical Assisting Program students, thereby obtaining both a Medical Assisting Certificate and a Billing and Coding Certificate. Courses may be taken separately to obtain Medical Billing and Coding certificate only. A grade of “C” or better is required in all classes to progress in the program. To be admitted to the medical assisting certificate program, the student must obtain the official application forms and follow the outlined procedures for enrollment.

The graduate of the certificate program in medical billing and coding will:

- Demonstrate proficiency by coding, classifying and indexing diagnoses and procedures for the purpose of reimbursement, standardization, retrieval and statistical analysis.
- Develop, implement and monitor procedures to ensure healthcare data integrity.
- Resolve discrepancies between coded data and supporting documentation.
- Assign the patient to diagnosis related groups (DRGs) using appropriate computer software.
- Process and prepare business and government forms.
- Compile and maintain patients’ medical records to document condition and treatment.
- Define an exhibit correct usage of insurance terms used in processing insurance forms in medical offices, clinics, hospitals and other medical areas.
- Perform basic physician office billing procedures.

Nineteen units constitute the certificate.

Course Number Title Units

Required core courses (19 units):

CBIS 101 Computer Concepts and Applications 3
MA 305 Body Systems and Diseases 5
MA 352 Medical Assisting Administrative 1 4
MA 360 Medical Billing and Insurance 4
MA 361 Coding for Medical Insurance 3

Nursing - Registered Nursing (LVN-to-RN only) (A.S.)
The registered nursing program, fully accredited by the California Board of Registered Nursing, is a two-semester program offered every year starting spring semester. California licensed vocational nurses and students are eligible to apply after completion of an accredited vocational nursing program and program prerequisites. The LVN-to-RN program is specifically designed to provide the LVN with an opportunity for career advancement and prepares the licensed vocational nurse for the additional responsibilities required of the registered nurse. In addition, the program has a 30-unit certificate option, completion of which qualifies the successful graduate to take the NCLEX RN licensing examination. The student choosing this option is NOT considered a graduate of the Allan Hancock Nursing program for college. Applicants to this curriculum alternative must meet with the program director for advisement.

The graduate of the AS program in registered nursing (LVN to RN only) will:

Be prepared to take and pass the National Council Licensure Examination for Registered Nurses.

Preparation will include demonstration of competency by:

- Utilizing nursing concepts to facilitate health and self-actualization by solving goal setting, energy and caring problems.
• Using a database from the humanities and sciences to support nursing activities.
• Using the concept of caring as a basis for providing nursing care implementing the behaviors of prevention, maintenance, care and restoration.
• Being responsible and accountable for self and one’s nursing practice.
• Providing nursing care to culturally diverse people utilizing tools of communication, teaching, nursing process, caring, energy, life span and psychomotor skills.
• Using research findings in nursing practice.
• Establishing learning patterns that will provide the means for lifelong personal and professional growth.
• Developing work-role relationships with members of the health team.
• Practicing nursing that is responsive to current and changing health care needs.
• Enacting the leadership role of the Registered Nurse in the community.

A major of 26 units is required for the associate in science degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 101</td>
<td>Foundations for Caring</td>
<td>2</td>
</tr>
<tr>
<td>NURS 102</td>
<td>Caring for People at Risk in the Community-Practicum 1</td>
<td>3</td>
</tr>
<tr>
<td>NURS 103</td>
<td>Caring for People at Risk in the Community-Practicum 1</td>
<td>5</td>
</tr>
<tr>
<td>NURS 104</td>
<td>Caring for People at Risk-Medical/Surgical Nursing 1</td>
<td>3</td>
</tr>
<tr>
<td>NURS 106</td>
<td>Leadership and Management</td>
<td>2</td>
</tr>
<tr>
<td>NURS 108</td>
<td>Caring for People at Risk in the Community-Practicum 2</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 109</td>
<td>Medical/Surgical at Risk Populations</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 110</td>
<td>Psychiatric/Mental Health at Risk Populations</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 111</td>
<td>Intermediate RN Skills</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 112</td>
<td>Advanced RN Skills</td>
<td>.5</td>
</tr>
</tbody>
</table>

NURSING - VOCATIONAL NURSING (A.S. & Certificate of Achievement)

The vocational nursing program is a one-year curriculum designed to prepare the CNA to function as a licensed vocational nurse. Upon satisfactory completion of each of the prerequisites and all of the nursing courses in the one-year program, including summer, the student is positioned to take the National Council Licensure Examination for Vocational Nurses.

The graduate of the AS or certificate program in vocational nursing will:

• Be prepared to take and pass the National Council Licensure Examination for Vocational Nurses.
• Be able to:
  • Utilize the nursing process within organized health care systems to help patients with common illnesses meet their basic human needs through direct patient care services.
  • Organize care for patients and participate in providing direction for unlicensed personnel with less preparation or experience in other than acute care settings.
  • Utilize information pertinent to community resources in order to meet the needs of patient and families.
  • Communicate effectively with patients and co-workers to assist in the achievement of health related and/or organizational goals.

A major of 47 units is required for the associate in science degree and certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 101</td>
<td>Foundations for Caring</td>
<td>2</td>
</tr>
<tr>
<td>NURS 102</td>
<td>Caring for People at Risk in the Community-Practicum 1</td>
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<tr>
<td>NURS 103</td>
<td>Caring for People at Risk in the Community-Practicum 1</td>
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</tr>
<tr>
<td>NURS 104</td>
<td>Caring for People at Risk-Medical/Surgical Nursing 1</td>
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<td>NURS 106</td>
<td>Leadership and Management</td>
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</tr>
<tr>
<td>NURS 108</td>
<td>Caring for People at Risk in the Community-Practicum 2</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 109</td>
<td>Medical/Surgical at Risk Populations</td>
<td>2.5</td>
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<td>2.5</td>
</tr>
<tr>
<td>NURS 111</td>
<td>Intermediate Skills for Health Professionals</td>
<td>.5</td>
</tr>
<tr>
<td>NURS 112</td>
<td>Advanced Skills for Health Professionals</td>
<td>.5</td>
</tr>
</tbody>
</table>

NURSING - CERTIFIED NURSING ASSISTANT (Certificate of Accomplishment)

The nursing assistant program prepares the student to enter the field of health care as a geriatric or acute care nursing assistant. All students who successfully complete the program must pass a written and skills test given by the State of California in order to become a Certified Nurse Assistant. Fees are involved. Additional certifications in home health aide, restorative aide and EKG/ Monitor Observer are offered for those with CNA certification.
The graduate of the certificate program in nursing assistant will:

- Demonstrate clinical skills in varied environments in long term and acute care hospitals.
- Identify and describe differences between long-term care and acute care nursing assistant functions.
- Identify legal and ethical responsibilities of the nursing assistant.
- Demonstrate skills and knowledge necessary to successfully complete and pass the state board examination.

**COURSE**  
**NUMBER**  
**TITLE**  
**UNITS**

| NURS 300 | Certified Nursing Assistant | 16 |

**NURSING - CERTIFIED HOME HEALTH AIDE**  
(Certificate of Accomplishment)

Successful completion of this course results in the CNA being awarded home health aide certification, allowing them to work in home health care.

The graduate of the certificate program in certified home health aide will:

- Differentiate home care activities from long-term care activities.
- Define the home health aide role within the care management team.
- Perform personal care services as defined in class and clinical experience on home-bound clients.
- Interpret normal vs. abnormal pertinent medical and social needs of the patient and to whom to report findings.
- Use required information systems, e.g., charts, forms, schedules appropriate to the home health aide level of practice.

**COURSE**  
**NUMBER**  
**TITLE**  
**UNITS**

| NURS 416 | Certified Home Health Aide | 2 |

**NURSING - RESTORATIVE AIDE**  
(Certificate of Accomplishment)

The CNA will be awarded a restorative aide certificate upon successful completion of this course. The CNA is then allowed to work in physical therapy or rehabilitation environments providing care.

The graduate of the certificate program in restorative aide will:

- Contrast the responsibilities of nursing, physical therapy and the restorative aide in producing the maximum rehabilitation possible for the resident and the importance of a team approach for optimum results.
- Identify regulations that apply to rehabilitative/restorative nursing.
- Identify disabilities that could benefit from restorative care.
- Accurately document restorative care.
- Demonstrate competence in performing restorative techniques.

**COURSE**  
**NUMBER**  
**TITLE**  
**UNITS**

| NURS 420 | Restorative Aide | 1.5 |

**NURSING – EKG / MONITOR OBSERVER**  
(Certificate of Accomplishment)

This certificate course prepares the CNA to function in the role of monitor observer for those patients requiring continuous EKG monitoring.

The graduate of the certificate program in EKG/monitor observer will:

- Identify the role and responsibilities of the monitor observer as a member of the health care team.
- Recognize normal electrical patterns of the heart.
- Recognize life-threatening abnormal rhythms of the heart.
- Apply monitor leads correctly.
- Explain the use of the cardiac monitor as a diagnostic and monitoring tool.

**COURSE**  
**NUMBER**  
**TITLE**  
**UNITS**

| NURS 422 | EKG/Monitor Observer | 1.5 |

**PARALEGAL STUDIES (A.S.)**

The A.S. degree in Paralegal Studies is designed to provide students with education, training, and experience that will enable them to become successful paralegals and to advance in the profession. The program is also designed to help students prepare for NALA certification (National Association of Legal Assistants).

The graduate of the AS program in paralegal studies will have a:

- Broad-based understanding of the American legal system and the practice of law in California.
- The skills and knowledge needed to work as a paralegal in a law firm.
- An understanding of the ethical rules and regulations applicable to the paralegal.
- A balanced education based on integration of theory and practice.
- Strong written and oral communication skills.
- Tools necessary to begin a career in a respected and well-paid profession.

A major of 36 units is required for the associate in science degree.

**COURSE**  
**NUMBER**  
**TITLE**  
**UNITS**

- BUS 110  Contract Law  3
- CWE 149  Cooperative Work Experience  2
- PLGL 101  Intro to Paralegal Studies  3
- PLGL 102  Criminal Law and Procedure  3
- PLGL 103  Civil Litigation  3
- PLGL 104  Legal Research and Writing  3
- PLGL 105  Legal Analysis and Writing  3
- PLGL 106  Case Management  3
- PLGL 107  Ethics for Paralegals  1

Required core courses (24 units):

- CBO 305  Legal Office Procedures  3
- PLGL 108  Wills and Trusts  3
- PLGL 109  Family Law  3
- PLGL 110  Intellectual Property Law  3
- PLGL 112  Corporations, Partnership, LLC  3
- PLGL 111  Tort Law for Paralegals  3
- RE 301  Legal Aspects of Real Estate  3

**PARALEGAL STUDIES**  
(Certificate of Achievement)

The Certificate of Achievement in Paralegal Studies is designed to help students gain the basic knowledge and skills necessary for an entry-level paralegal position. All courses in the Certificate of Achievement Program are also required courses in the Associate Degree program in Paralegal Studies so students have a seamless pathway to paralegal certification and career advancement.

The graduate of the certificate program in paralegal studies will have a:

- Broad-based understanding of the American legal system and the practice of law in California.
- The skills and knowledge needed to work as a paralegal in a law firm.
- An understanding of the ethical rules and regulations applicable to the paralegal.
- A balanced education based on integration of theory and practice.
- Strong written and oral communication skills.
- Tools necessary to begin a career in a respected and well-paid profession.
Twenty-four units constitute the certificate

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
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<tbody>
<tr>
<td>BUS 110</td>
<td>Contract Law</td>
<td>3</td>
</tr>
<tr>
<td>CWE 149</td>
<td>Cooperative Work Experience</td>
<td>2</td>
</tr>
<tr>
<td>PLGL 101</td>
<td>Intro to Paralegal Studies</td>
<td>3</td>
</tr>
<tr>
<td>PLGL 102</td>
<td>Criminal Law and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>PLGL 103</td>
<td>Civil Litigation</td>
<td>3</td>
</tr>
<tr>
<td>PLGL 104</td>
<td>Legal Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>PLGL 105</td>
<td>Legal Analysis and Writing</td>
<td>3</td>
</tr>
<tr>
<td>PLGL 106</td>
<td>Case Management</td>
<td>3</td>
</tr>
<tr>
<td>PLGL 107</td>
<td>Ethics for Paralegals</td>
<td>1</td>
</tr>
</tbody>
</table>

**PHYSICAL EDUCATION (A.A.)**

The associate degree in physical education prepares students to move into a curriculum in a four-year institution to pursue a baccalaureate degree in such areas as exercise physiology, kinesiology, physical therapy and teaching. The physical educator with a baccalaureate degree is prepared to enter graduate or professional programs of specialized study such as adapted physical education, coaching, exercise physiology, physical therapy and education.

The graduate of the AA program in physical education will:
- Demonstrate and evaluate the factors that contribute to a healthy lifestyle and contribute to the prevention of adult-related diseases such as diabetes, obesity and cardiovascular disease.
- Synthesize health education information and apply principles of exercise in order to improve personal wellness and longevity.
- Acquire program specific information from various sources with which to better appreciate, analyze, and communicate in different situations, involving diverse individuals and viewpoints.

A major of 26 units is required for the associate in arts degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required core courses (17 units):</td>
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<td></td>
</tr>
<tr>
<td>ATH 104</td>
<td>Care and Prevention of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 124</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>HED 100</td>
<td>Health and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>PE 101</td>
<td>Introduction to Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PE 104</td>
<td>Sport Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PE 108</td>
<td>First Aid/CPR: Educator/Coach</td>
<td>1</td>
</tr>
<tr>
<td>Plus a minimum of 6 units selected from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATH 106</td>
<td>Orthopedic Injury Assess/Rehab</td>
<td>3</td>
</tr>
<tr>
<td>FSN 110</td>
<td>Nutrition Science</td>
<td>3</td>
</tr>
<tr>
<td>PE 106</td>
<td>Sports Officiating</td>
<td>3</td>
</tr>
<tr>
<td>REC 101</td>
<td>Introduction to Recreation Management</td>
<td>3</td>
</tr>
<tr>
<td>REC 107</td>
<td>Recreational Sports Programming</td>
<td>3</td>
</tr>
<tr>
<td>Plus a minimum of 3 units selected from Physical Education (PE) activity and/or Physical Education Intercollegiate Athletic (PEIA) courses.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PHYSICS (A.A.)**

The associate degree program in physics prepares students to begin upper-division work leading to a baccalaureate degree in physics or engineering physics. It also provides some of the support courses required for the baccalaureate degree.

The graduate of the AA program in physics will:
- Demonstrate knowledge of the fundamental laws of physics and physical terminology.
- Apply physical principles to solve a variety of simple problems.
- Demonstrate the proper use of physical apparatus for testing and observing physical theories.
- Write scientific reports on a given experiment indicating the significance of the experiment and the degree to which the results verify a principle or law.
- Analyze complex problems to identify single principle components and synthesize solutions from multiple concepts.

A major of 35 units is required for the associate in arts degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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</thead>
<tbody>
<tr>
<td>MATH 123</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PSY 101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 113</td>
<td>Theories of Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSY 117</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PSY 118</td>
<td>Human Development-Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>Plus a minimum of 12 units selected from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 101</td>
<td>Introduction to Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 102</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>HUVS 106</td>
<td>Family Systems and Codependency</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 104</td>
<td>Social Science Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>PSY 112</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>PSY 115</td>
<td>Behavior Modification</td>
<td>3</td>
</tr>
<tr>
<td>PSY 116</td>
<td>Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>PSY 119</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 120</td>
<td>Cultural Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 121</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 110</td>
<td>Personal and Family Relationships in the 21st Century</td>
<td>3</td>
</tr>
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</table>
DEGREES & CERTIFICATES

Recommended electives:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Introduction to Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 124</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 125</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>MATH 135</td>
<td>Calculus with Applications</td>
<td>4</td>
</tr>
<tr>
<td>PSY/HUSV 128</td>
<td>Positive Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

RECREATION MANAGEMENT
(A.S. & Certificate of Achievement)
The Associate Science degree in Recreation Management prepares students to either obtain middle level positions in the Recreation field or advance from entry level positions in all areas of recreation. Students can also transfer to a four-year institution to pursue a baccalaureate degree in Recreation, Hospitality or Tourism Management.

The graduate of the AS or certificate program in recreation management will:

- Demonstrate knowledge of career opportunities in the recreation fields and understand the differences between the public, private, nonprofit, therapeutic and commercial settings.
- Demonstrate and apply learned leadership skills in a team building classroom environment.
- Apply and practice the skills of event planning for organizing community events.
- Apply the principals and theories of sports management for municipal, commercial and nonprofit agencies.

A major of 21 units is required for the associate in science degree and certificate.

COURSE
NUMBER | TITLE                          | UNITS |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 101</td>
<td>Intro to Recreation Management</td>
<td>3</td>
</tr>
<tr>
<td>REC 103</td>
<td>Leadership in Recreation Services</td>
<td>3</td>
</tr>
<tr>
<td>REC 105</td>
<td>Program Planning for Recreation</td>
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<tr>
<td>REC 107</td>
<td>Recreational Sports Programming</td>
<td>3</td>
</tr>
<tr>
<td>CWE 149</td>
<td>Cooperative Work Experience</td>
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Plus a minimum of 6 units selected from the following:

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<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>ATH 104</td>
<td>Care/Prevention of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>EMS 102</td>
<td>First Aid and Safety</td>
<td>3</td>
</tr>
<tr>
<td>H ED 100</td>
<td>Health and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>SOC 120</td>
<td>Race and ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Small Group Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

SOCIAL SCIENCE (A.A.)
The social sciences are concerned with the study of human behavior and the human condition. The various disciplines within social science are united in their quest to understand the “whys,” “causes,” and “consequences” of human experience and action. The social science major is designed to provide the student with an integrated liberal arts background that focuses on social science and fulfills the lower-division requirements for specific upper-division majors. Occupational choices for social scientists are numerous and varied in both the private and public sectors. Depending on the individual’s specialization, career opportunities may be found most frequently in the areas of human services, education, law and criminal justice, government and business administration.

The graduate of the AA program in social science will:

- Synthesize and apply social science concepts.
- Use information/data from multiple sources and demonstrate knowledge of research methodologies and multiple theoretical perspectives.
- Have the ability to use social science methods to identify, formulate and study social problems.
- Understand the interdisciplinary nature of knowledge and view issues from a holistic perspective.
- Have college-level knowledge and skills in critical thinking, analysis and written communication.

- Understand the global society and processes of globalization from non-Western, Western and indigenous perspectives.
- Make informed, reasoned and ethical personal and public choices.

A major of 18 units is required for the associate in arts degree.

COURSE
NUMBER | TITLE                          | UNITS |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ANTH 102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>Human Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST/HUM 105</td>
<td>Western Civilization Since 1650</td>
<td>3</td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>POLS 101</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>POLS 104</td>
<td>Introduction to International Relations</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
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</table>

Recommended electives:

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<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS/ECON/</td>
<td>Global Economics</td>
<td>3</td>
</tr>
<tr>
<td>GBST 141</td>
<td>Principles of Economics: Micro-Economics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>SOC 122</td>
<td>Sociology of the Hispanic Culture</td>
</tr>
</tbody>
</table>

SOUND TECHNOLOGY
(Certificate of Achievement)
The sound technology certificate is intended to prepare students for careers in sound recording and sound reinforcement in live and studio performance situations, as well as in the film industry, television, radio and other areas where sound recording and electronic music play an increasingly vital role. The certificate program can also be valuable preparation for enrolling in an advanced commercial music school.

The graduate of the certificate program in sound technology will:

- Recognize and define the basic terminology associated with acoustics.
- Recognize and define the basic terminology associated with sound recording and electronic music.
- Participate in sound recording and mix-down sessions.
- Produce and record works of electronic music.

Nineteen units constitute the certificate.

COURSE
NUMBER | TITLE                          | UNITS |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115/</td>
<td>Introduction to Sound Recording &amp; Mixing</td>
<td>3</td>
</tr>
<tr>
<td>FILM 120</td>
<td>Sound Production Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUS 116/</td>
<td>Sound Production Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUS 117</td>
<td>MIDI Technology and Its Applications</td>
<td>3</td>
</tr>
<tr>
<td>MUS 118</td>
<td>Introduction to Electronic Music</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 7 units selected from the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL 118</td>
<td>Fundamentals of DC &amp; AC Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EL 111</td>
<td>Fundamentals of DC Circuit Analysis</td>
</tr>
<tr>
<td>and</td>
<td>EL 113</td>
<td>Fundamentals of AC Circuit Analysis</td>
</tr>
<tr>
<td>EL 119</td>
<td>Fundamentals of DC &amp; AC Circuit Analysis Lab</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>EL 112</td>
<td>Fundamentals of DC Circuit Analysis Lab</td>
</tr>
<tr>
<td>and</td>
<td>EL 114</td>
<td>Fundamentals of AC Circuit Analysis Lab</td>
</tr>
<tr>
<td>FILM 110</td>
<td>Introduction to Film and Video Production</td>
<td>4</td>
</tr>
<tr>
<td>MUS 104</td>
<td>The Roots of Pop, Rock and Jazz</td>
<td>3</td>
</tr>
<tr>
<td>MUS 111</td>
<td>Comprehensive Music Theory 1</td>
<td>4</td>
</tr>
<tr>
<td>MUS 112</td>
<td>Comprehensive Music Theory 2</td>
<td>4</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Electronic Music Studio Techniques (+)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 143</td>
<td>Jazz Band (+)</td>
<td>1</td>
</tr>
</tbody>
</table>

(+May be repeated for credit.)
SPANISH (A.A.)

As the world becomes increasingly smaller, knowledge of foreign languages expands in importance. Spanish is very useful in language in education, health, social services, business and other fields where contact with the public takes place. The focus of the program is on language; however, students also gain historical, economic and cultural insights into the Hispanic world.

The graduate of the AA program in Spanish will:
- Be able to speak, understand, read and write Spanish.
- Show an appreciation for the cultures represented by the Spanish language.

A major of 18 units is required for the associate in arts degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 103</td>
<td>Intermediate Spanish</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 104</td>
<td>Intermediate Spanish</td>
<td>5</td>
</tr>
</tbody>
</table>

Plus a minimum of 8 units selected from the following:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 102</td>
<td>Freshman Composition: Literature</td>
<td>3</td>
</tr>
<tr>
<td>FRCH 101</td>
<td>Elementary French</td>
<td>5</td>
</tr>
<tr>
<td>FRCH 102</td>
<td>Elementary French</td>
<td>5</td>
</tr>
<tr>
<td>ITAL 101</td>
<td>Elementary Italian</td>
<td>5</td>
</tr>
<tr>
<td>ITAL 102</td>
<td>Elementary Italian</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 111</td>
<td>Intermediate Spanish Conversation</td>
<td>2</td>
</tr>
<tr>
<td>SPAN 148</td>
<td>Hispanic Literature in Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended electives:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105</td>
<td>Art History Survey-Art of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>ASL 120</td>
<td>American Sign Language 1</td>
<td>3</td>
</tr>
<tr>
<td>ASL 121</td>
<td>American Sign Language 2</td>
<td>3</td>
</tr>
<tr>
<td>BUS 140</td>
<td>Survey of International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS/ECON 164</td>
<td>International Economics</td>
<td>3</td>
</tr>
<tr>
<td>DANC 140</td>
<td>Folklor Dances of Mexico and Spain</td>
<td>1</td>
</tr>
<tr>
<td>DANC 142</td>
<td>Fiori Dance</td>
<td>.5</td>
</tr>
<tr>
<td>EBS 116</td>
<td>Teaching a Diverse Society</td>
<td>3</td>
</tr>
<tr>
<td>EBS 117</td>
<td>Teaching the Bilingual/Bicultural Hispanic Child</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 130</td>
<td>American Literature/19th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 133</td>
<td>Modern Fiction</td>
<td>3</td>
</tr>
<tr>
<td>FILM 103</td>
<td>Contemporary Latin American Film</td>
<td>3</td>
</tr>
<tr>
<td>HIST 120</td>
<td>History of the Mexican-American</td>
<td>3</td>
</tr>
<tr>
<td>LATN 101</td>
<td>Elementary Latin</td>
<td>3</td>
</tr>
<tr>
<td>POLS 105</td>
<td>International Relations</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 110</td>
<td>Introduction to Conversation in Spanish</td>
<td>2</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SOC 122</td>
<td>Sociology of the Hispanic Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

SPEECH COMMUNICATION (A.A.)

The speech communication major provides students with an opportunity to improve their personal, public and professional lives. Students study communication dynamics in interpersonal relationships, groups and public settings. By studying how, why and with what consequences people communicate, students will become more competent communicators. Students will develop broad-based competencies in oral and written communication as well as critical analysis. The articulated transfer major will prepare students for further studies toward a baccalaureate degree in speech and/or communication studies.

The graduate of the AA program in speech communication will:
- Demonstrate knowledge of communication theories.
- Demonstrate competent communication behaviors for a variety of purposes.
- Be able to locate, synthesize, evaluate and utilize research.

A major of 21 units is required for the associate in arts degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH 101</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 106</td>
<td>Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 108</td>
<td>Oral Interpretation of Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 110</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 3 units selected from the following:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Freshman Composition: Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 103</td>
<td>Critical Thinking and Composition</td>
<td>3</td>
</tr>
<tr>
<td>FILM 101</td>
<td>Film as Art and Communication</td>
<td>3</td>
</tr>
<tr>
<td>HIST/HUM 104</td>
<td>Western Civilization to 1650</td>
<td>3</td>
</tr>
<tr>
<td>HIST/HUM 105</td>
<td>Western Civilization Since 1650</td>
<td>3</td>
</tr>
<tr>
<td>MATH 123</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 114</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 120</td>
<td>Race and Ethnic Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

SPEECH COMMUNICATION - COMMUNICATION SKILLS FOR PUBLIC SAFETY AND HEALTH PROFESSIONALS

(Certificate of Accomplishment)

The graduate of the certificate program in communication skills for public safety and health professionals will:
- Demonstrate knowledge of communication theories.
- Demonstrate competent communication behaviors to be used in the field of public safety and health.
- Be able to locate, synthesize, evaluate and utilize research.

Seven to nine units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH 103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 110</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 189</td>
<td>Independent Projects</td>
<td>1-3</td>
</tr>
</tbody>
</table>

SPEECH COMMUNICATION - COMMUNICATION SKILLS FOR THE BUSINESS PROFESSIONAL

(Certificate of Accomplishment)

The graduate of the certificate program in communication skills for the business professional will:
- Demonstrate knowledge of communication theories.
- Demonstrate competent communication behaviors to be used in the field of business.
- Be able to locate, synthesize, evaluate and utilize research.

Ten to twelve units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH 102</td>
<td>Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 110</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 189</td>
<td>Independent Projects</td>
<td>1-3</td>
</tr>
</tbody>
</table>

SPEECH COMMUNICATION - COMMUNICATION SKILLS FOR THE PROFESSIONAL SPEAKER

(Certificate of Accomplishment)

The graduate of the certificate program in communication skills for the professional speaker will:
- Demonstrate knowledge of communication theories.
- Demonstrate competent communication behaviors to be used as a professional speaker.
- Be able to locate, synthesize, evaluate and utilize research.

Ten to twelve units constitute the certificate.
DEGREES & CERTIFICATES

COURSE NUMBER TITLE UNITS
SPCH 101 Public Speaking 3
SPCH 106 Argumentation and Debate 3
SPCH 108 Oral Interpretation of Literature 3
SPCH 189 Independent Projects 1-3

TRANSFER STUDIES - CSU GENERAL EDUCATION BREADTH (CSU GE/B) (Certificate of Achievement)

Completion of all these requirements will permit you to transfer to any CSU campus without the need, after transfer, to take additional lower-division general education courses. Students will understand the basic principles of natural sciences, social and behavioral sciences, the humanities and fine arts. Students completing this degree will understand the basic principles of these academic disciplines, their methods of inquiry, their history, and impact on society, and their relationships to each other. Students will also be able to think critically, to communicate effectively, to reason using quantitative models and to maintain their physical and mental well being.

The graduate of the transfer studies program in CSU general studies breadth will:
- Correctly set-up, solve, and interpret the results of a variety of computational and non-computational problems relevant to the natural sciences by applying the language, critical thinking, and mathematical skills acquired in previous courses.
- Demonstrate and understanding of the interrelationship between the creative arts, the humanities, and themselves.
- Critically explain how people act and have acted in response to their societies.
- Demonstrate and understanding of how societies and social subgroups operate.
- Communicate ideas more effectively.
- Demonstrate and ability to think logically and critically in solving problems; explaining conclusions; and evaluating, supporting or critiquing the thinking of others.
- Evaluate personal choices regarding disease prevention, healthy living, and making positive life choices.

TRANSFER STUDIES - INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) (Certificate of Achievement)

Completion of all these requirements (34-37 units) will permit you to transfer to any CSU or UC campus without the need, after transfer, to take additional lower-division general education courses. Students will understand the basic principles of natural sciences, social and behavioral sciences, the humanities and fine arts. Students completing this degree will understand the basic principles of these academic disciplines, their methods of inquiry, their history, and impact on society, and their relationships to each other. Students will also be able to think critically, to reason using quantitative models and to maintain their physical and mental well being.

The graduate of the transfer studies program in IGETC will:
- Demonstrate an ability to think logically and critically in solving problems; explaining conclusions; and evaluating, supporting or critiquing the thinking of others.
- Demonstrate an understanding of how societies and social subgroups operate.
- Critically explain how people act and have acted in response to their societies.
- Evaluate and interpret the ways in which people throughout the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation.
- Develop mathematical and quantitative reasoning skills beyond the level of intermediate algebra.
- Understand the acts and principles which form the foundations of living and non-living systems.
- Understand experimental methodology, the testing of hypothesis, the power of systematic questioning and the influence of the scientific method on the world’s civilizations.
- Be able to develop basic speaking, listening, reading and writing skills in a foreign language.

TRANSFER STUDIES - UC/CSU - TRANSFER STUDIES (MATH, ENGINEERING, AND SCIENCE MAJORS) (Certificate of Achievement)

Students who wish to pursue this certificate will choose from the general education pattern below:

General Education Patterns
A. California State University General Education/Breadth (CSU GE) 39-40 units
B. Intersegmental General Education Transfer Curriculum (IGETC) 34-37 units

Courses in which students will select in the natural science and mathematics area will emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in mathematics 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 will also examine the influence that the acquisition of scientific knowledge has on the development of the world’s largest civilizations. Students wishing to transfer in Math, Engineering and Science majors are strongly advised to meet with a counselor to develop a student education plan to ensure a smooth transfer process.

The graduate of the transfer studies program in UC/CSU transfer studies (math, engineering and science majors) will:
- Develop mathematical and quantitative reasoning skills beyond the level of intermediate algebra.
- Demonstrate an ability to think logically and critically in solving problems; explaining conclusions; and evaluating, supporting or critiquing the thinking of others.
- Understand the acts and principles which form the foundations of living and non-living systems.
- Understand experimental methodology, the testing of hypothesis, the power of systematic questioning and the influence of the scientific method on the world’s civilizations.

WELDING TECHNOLOGY (A.S. & Certificate of Achievement)

The associate degree and certificate curriculum in welding technology is designed to provide comprehensive occupational training in all common types of welding methods as related to today’s welding fabrication industries. This program will provide students with manipulative skills and technical knowledge required to perform in the areas of oxyacetylene, shielded metal arc and gas metal arc (G.M.A.W. and T.I.G.) welding processes.

Also included in this program are hand cutting and semi-automatic cutting techniques. Certification tests may be taken. Employment opportunities available are welder, welder mechanic, maintenance welder, construction welder, pipe welder and welding inspectors.

The graduate of the AS or certificate program in welding technology will:
- Pass at least one welder qualification test (3G-verticle or 4G-overhead) using at least one basic process.
- Pass the GMAW and SMAW processes to the American Welding Societies D1.1 Structural Welding Code.
- Have competency in blueprint reading.
- Have a working knowledge of metallurgy.
- Be able to do a basic layout, fitting and cutting operation.
- Have the ability to operate basic welding equipment in a safe manner.

A major of 31 units is required for the associate in science degree and certificate.
WELDING TECHNOLOGY - METAL FABRICATION (Certificate of Achievement)
The graduate of the certificate program in metal fabrication will:
- Pass at least one welder qualification test (3G-vertical or 4G-overhead) using at least one basic process.
- Have competency in blueprint reading.
- Have a working knowledge of metallurgy.
- Do a basic layout, fitting and cutting operation.
- Operate basic welding equipment in a safe manner.
- Weld, cut and fit ferrous and non-ferrous materials to industry standard.

Twenty units constitute the certificate.

WELDING TECHNOLOGY - PIPE WELDING TECHNOLOGY (Certificate of Achievement)
The graduate of the certificate program in pipe welding technology will:
- Pass at least one welder qualification test (3G-vertical or 4G-overhead) using at least one basic process.
- Have competency in blueprint reading.
- Have a working knowledge of metallurgy.
- Do a basic layout, fitting and cutting operation.
- Operate basic welding equipment in a safe manner.
- Weld, cut and fit ferrous and non-ferrous materials to industry standard.

Nineteen units constitute the certificate.

WILDLAND FIREFIGHTING OPERATIONS (A.S. & Certificate of Achievement)
The graduate of the AS or certificate program in wildland firefighting operations will:
- 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; 10 Standard Firefighting Orders; 18 Situations that Shout “Watch Out” and common factors associated with injuries and line of duty deaths in wildland fire emergencies.
- 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.
- Identify and describe the apparatus used in the wildland firefighting and the equipment and maintenance of apparatus and equipment.
- Identify and describe common types of wildland firefighting assignments.
- Identify and describe wildland air operations, emergency medical operations and incident command operations.

Prerequisites for all wildland firefighting courses are the following:
- Two National Wildfire Coordinating Group Incident Command System Courses.

Required core courses (15 units):
- WFT 101 Wildland Fire Behavior 3
- WFT 102 Wildland Fire Fighter Safety and Survival 3
- WFT 103 Wildland Fire Operations (Ground, Air) 3
- WFT 104 Wildland Fire Public Information Officer, Prevention, and Investigation 3
- WFT 105 Wildland Fire Logistics, Finance and Planning 3

Plus a minimum of 15 units selected from the following:
- WFT 301 Intro to Incident Command System [I-100] .5
- WFT 302 Basic Incident Command System [I-200] 1
- WFT 303 Intermediate Incident Command System [I-300] 1
- WFT 304 Advanced Incident Command System [I-400] 1
- WFT 305 Multi-Agency Coordination .5
- WFT 306 Incident Command System for Executives .5
- WFT 310 Basic Fire Suppression Orientation [S-110] .5
- WFT 311 Firefighter Training [S-130] 2
- WFT 312 Advanced Firefighter Training [S-131] .5
- WFT 313 Introduction to Wildland Fire Behavior [S-190] .5
- WFT 314 Initial Attack Incident Commander Type 4 ICT4 [S-200] 1
- WFT 315 Supervisory Concepts and Techniques [S-201] 1
- WFT 316 Fire Operations in the Urban Interface [S-205] 2
- WFT 317 Portable Pumps and Water Use [S-211] .5
- WFT 318 Wildfire Powersaws [S-212] 1.5
- WFT 319 Driving for the Fire Service [S-216] 2
- WFT 320 Interagency Helicopter Training Guide [S-217] 2
- WFT 321 Crew Boss (Single Resource) [S-230] 1.5
- WFT 322 Engine Boss (Single Resource) [S-231] .5
- WFT 323 Dozer Boss (Single Resource) [S-232] 1
- WFT 324 Tractor/Plow Boss [S-233] .5
- WFT 325 Firing Methods & Procedures [S-234] 1
- WFT 326 Felling Boss [S-235] 1.5
DEGREES & CERTIFICATES

WFTO 327 Staging Area Manager [J-236] .5
WFTO 328 Field Observer [S-244] 2
WFTO 329 Fire Business Management Principles [S-260] .5
WFTO 330 Basic Air Operations [S-270] 1
WFTO 331 Helispot Manager [J-272] .5
WFTO 332 Intermediate Wildland Fire Behavior [S-290] 2
WFTO 333 Incident Commander, Multiple Resources [S-300] 1
WFTO 334 Leadership & Organizational Development [S-301] 1.5
WFTO 335 Task Force/Strike Team Leader [S-330] 1.5
WFTO 336 Fire Suppression Tactics [S-336] 2
WFTO 337 Division/Group Supervisor [S-339] 1
WFTO 338 Intermediate Aviation Operations [S-370] 2
WFTO 339 Helibase Manager [S-371] 2
WFTO 340 Helicopter Coordinator [S-374] 2
WFTO 341 Air Support Group Supervisor [S-375] 2
WFTO 342 Air Tanker Coordinator [S-376] 1.5
WFTO 343 Air Tactical Group Supervisor [S-378] 1.5
WFTO 344 Introduction to Wildland Fire Behavior Calculations [S-390] 2
WFTO 345 Incident Commander [J-400] 1.5
WFTO 346 Liaison Officer [S-402] 1
WFTO 347 Safety Officer [S-404] 1.5
WFTO 348 Standards for Survival [PMS-416] .5
WFTO 349 Hazardous Materials Awareness Program for Firefighters [PMS-418] .5
WFTO 350 Command and General Staff [S-420] 1
WFTO 351 Look Up, Look Down, Look Around [PMS-427] .5
WFTO 352 Learn to Behave [PMS-428] 1
WFTO 354 Operations Section Chief [S-430] 2
WFTO 355 Training Specialist [S-445] 2
WFTO 356 Field Observer [S-455] 1
WFTO 357 Advanced Wildland Fire Behavior Calculations [S-490] 2
WFTO 358 Facilitative Instructor [PMS-925] 2
WFTO 360 Hazardous Materials First Responder Update 1.5
EMS 461 Medical First Responder Update .5
WFTO 362 Campbell Prediction System 1
WFTO 363 Followship to Leadership [L-280] 1
WFTO 364 Incident Leadership [L-381] 2

WFTO 364 Incident Leadership [L-381] 2
WFTO 363 Followership to Leadership [L-380] 1
WFTO 362 Campbell Prediction System .5
WFTO 361 Ignition Specialist [RX-300] 2
WFTO 360 Incident Command System for Executives .5
WFTO 359 Intermediate Incident Command System [I-100] .5
WFTO 358 Advanced Incident Command System [I-200] 1
WFTO 357 Intermediate Incident Command System [I-300] 1
WFTO 356 Multi-Agency Coordination .5
WFTO 355 Training Specialist [I-400] 1
WFTO 354 Field Observer [I-500] 1
WFTO 353 Advanced Incident Command System [I-600] 1
WFTO 352 Field Observer [I-700] 1
WFTO 351 Intermediate Incident Command System [I-800] 1
WFTO 350 Field Observer [I-900] 1

DEGREES & CERTIFICATES

WFTO 364 Incident Leadership [L-381] 2
WFTO 363 Followership to Leadership [S-445] 1
WFTO 362 Campbell Prediction System 1
WFTO 361 Ignition Specialist [RX-300] 2
WFTO 360 Incident Command System for Executives .5
WFTO 359 Intermediate Incident Command System [I-100] .5
WFTO 358 Advanced Incident Command System [I-200] 1
WFTO 357 Intermediate Incident Command System [I-300] 1
WFTO 356 Multi-Agency Coordination .5
WFTO 355 Training Specialist [I-400] 1
WFTO 354 Field Observer [I-500] 1
WFTO 353 Advanced Incident Command System [I-600] 1
WFTO 352 Field Observer [I-700] 1
WFTO 351 Intermediate Incident Command System [I-800] 1
WFTO 350 Field Observer [I-900] 1

WFTO 361 Ignition Specialist [RX-300] 2
WFTO 360 Incident Command System for Executives .5
WFTO 359 Intermediate Incident Command System [I-100] .5
WFTO 358 Advanced Incident Command System [I-200] 1
WFTO 357 Intermediate Incident Command System [I-300] 1
WFTO 356 Multi-Agency Coordination .5
WFTO 355 Training Specialist [I-400] 1
WFTO 354 Field Observer [I-500] 1
WFTO 353 Advanced Incident Command System [I-600] 1
WFTO 352 Field Observer [I-700] 1
WFTO 351 Intermediate Incident Command System [I-800] 1
WFTO 350 Field Observer [I-900] 1

DEGREES & CERTIFICATES

WFTO 364 Incident Leadership [L-381] 2
WFTO 363 Followership to Leadership [S-445] 1
WFTO 362 Campbell Prediction System 1
WFTO 361 Ignition Specialist [RX-300] 2
WFTO 360 Incident Command System for Executives .5
WFTO 359 Intermediate Incident Command System [I-100] .5
WFTO 358 Advanced Incident Command System [I-200] 1
WFTO 357 Intermediate Incident Command System [I-300] 1
WFTO 356 Multi-Agency Coordination .5
WFTO 355 Training Specialist [I-400] 1
WFTO 354 Field Observer [I-500] 1
WFTO 353 Advanced Incident Command System [I-600] 1
WFTO 352 Field Observer [I-700] 1
WFTO 351 Intermediate Incident Command System [I-800] 1
WFTO 350 Field Observer [I-900] 1

WFTO 361 Ignition Specialist [RX-300] 2
WFTO 360 Incident Command System for Executives .5
WFTO 359 Intermediate Incident Command System [I-100] .5
WFTO 358 Advanced Incident Command System [I-200] 1
WFTO 357 Intermediate Incident Command System [I-300] 1
WFTO 356 Multi-Agency Coordination .5
WFTO 355 Training Specialist [I-400] 1
WFTO 354 Field Observer [I-500] 1
WFTO 353 Advanced Incident Command System [I-600] 1
WFTO 352 Field Observer [I-700] 1
WFTO 351 Intermediate Incident Command System [I-800] 1
WFTO 350 Field Observer [I-900] 1

The graduate of the AS or certificate program in wildland firefighting prevention, investigation and prescribed burning will:

- 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; 10 Standard Firefighting Orders; 18 Situations that Shout "Watch Out" and common factors associated with injuries and line of duty deaths in wildland fire emergencies.
- 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.
- Identify and describe the apparatus used in the wildland firefighting and the equipment and maintenance of apparatus and equipment.
- Identify and describe common types wildland firefighting assignments.
- Identify and describe prescribed fire and smoke management, wildland prevention marketing and emergency information dissemination.

Prerequisites for all wildland firefighting courses are the following two National Wildfire Coordinating Group Incident Command System Courses.

DEGREES & CERTIFICATES

The graduate of the AS or certificate program in wildland firefighting, logistics, finance and planning will:

- 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; 10 Standard Firefighting Orders; 18 Situations that Shout "Watch Out" and common factors associated with injuries and line of duty deaths in wildland fire emergencies.

DEGREES & CERTIFICATES

The graduate of the AS or certificate program in wildland firefighting, logistics, finance and planning will:

- 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; 10 Standard Firefighting Orders; 18 Situations that Shout "Watch Out" and common factors associated with injuries and line of duty deaths in wildland fire emergencies.
DEGREES & CERTIFICATES

- 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.
- Identify and describe the apparatus used in the wildland firefighting and the equipment and maintenance of apparatus and equipment.
- Identify and describe common types of wildland firefighting assignments.
- Identify and describe incident planning, record keeping and analysis, logistical needs, procurement and dissemination.

Prerequisites for all wildland firefighting courses are the following two National Wildfire Coordinating Group Incident Command System Courses.

### COURSE

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>WFT 301</td>
<td>Intro to Incident Command System [I-100]</td>
<td>.5</td>
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<tr>
<td>WFT 302</td>
<td>Basic Incident Command System [I-200]</td>
<td>1</td>
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</tbody>
</table>

A major of 30 units is required for the associate in science degree and certificate.

### COURSE

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<thead>
<tr>
<th>COURSE NUMBER</th>
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<th>UNITS</th>
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</thead>
<tbody>
<tr>
<td>WFT 101</td>
<td>Wildland Fire Behavior</td>
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<td>WFT 102</td>
<td>Wildland Fire Fighter Safety and Survival</td>
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<tr>
<td>WFT 103</td>
<td>Wildland Fire Operations (Ground, Air)</td>
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<tr>
<td>WFT 104</td>
<td>Wildland Fire Public Information Officer,</td>
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<td></td>
<td>Prevention &amp; Investigation</td>
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<tr>
<td>WFT 105</td>
<td>Wildland Fire Logistics, Finance, and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 15 units selected from the following:

- WFT 303 Intermediate Incident Command System [I-300] 1
- WFT 304 Advanced Incident Command System [I-400] 1
- WFT 305 Multi-Agency Coordination .5
- WFT 306 Incident Command System for Executives .5
- WFTL 314 Base/Camp Manager [J-254] 2
- WFTL 315 Equipment Manager [J-255] 1.5
- WFTL 316 Tool and Equipment Specialist [J-256] .5
- WFTL 317 Incident Communications Manager [J-257] 1.5
- WFTL 310 Display Processor [S-245] .5
- WFTL 311 Check in Recorder/Status Recorder [S-248] .5
- WFTL 312 Ordering Manager [J-252] .5
- WFTL 313 Receiving and Distribution Manager [J-253] .5
- WFTL 318 Communications Equipment/Procedures [S-258] 2
- WFTL 319 Security Manager [J-259] .5
- WFTL 320 Fire Business Management Principles [S-260] 1.5
- WFTL 321 Personnel Time Recorder [J-261] 1
- WFTL 322 Equipment Time Recorder [J-262] 1
- WFTL 323 Claims Manager [J-263] 1
- WFTL 324 Compensation for Injury Manager [J-264] 1
- WFTL 325 Commissary Manager [J-266] 1
- WFTL 326 Documentation Unit Leader [J-342] 1
- WFTL 327 Situation Unit Leader [J-346] 1.5
- WFTL 328 Demobilization Unit Leader [J-347] 1
- WFTL 329 Resource Unit Leader [J-348] 1.5
- WFTL 330 Facilities Unit Leader [J-354] 2
- WFTL 331 Ground Support Unit Leader [J-355] .5
- WFTL 332 Supply Unit Leader [J-356] 2
- WFTL 333 Food Unit Leader [J-357] 1.5
- WFTL 334 Communications Unit Leader [J-358] 4
- WFTL 335 Medical Unit Leader [J-359] .5
- WFTL 336 Cost Unit Leader [I-362] .5
- WFTL 337 Compensation/claims Unit Leader [I-363] .5
- WFTL 338 Time Unit Leader [I-365] .5
- WFTL 339 Procurement Unit Leader [I-368] .5
- WFTL 340 Planning Section Chief [J-440] 2
- WFTL 341 Logistics Section Chief [J-450] 2
- WFTL 342 Finance Section Chief [I-460] 2

or the following WFTO Courses

- WFTO 310 Basic Fire Suppression Orientation [S-110] .5
- WFTO 315 Supervisory Concepts & Techniques [S-201] 1
- WFTO 316 Fire Operations in the Urban Interface [S-205] 2
- WFTO 327 Field Observer [S-244] 2
- WFTO 329 Fire Business Management Principles [S-260] 1
- WFTO 331 Leadership & Organizational Develop [S-301] 1.5
- WFTO 351 Training Specialist [S-445] 1
- WFTO 354 Facilitative Instructor [PMS-925] 2
Announcement of Courses

In the past five years, our dental assisting students have excelled with a 97 percent pass rate on the state exam.
COURSE INFORMATION

Students should familiarize themselves with the information given below about the course descriptions. Courses are listed alphabetically. Each course is designated by a prefix and number. A descriptive title and the unit value follow the course number. The semester in which the course is usually offered is noted at the end of the course description following the grading option. See the key at the end of this section.

Numbering System: Courses numbered 100-199 are remedial courses and will transfer to the California State University system and other four-year institutions. Please note that some of these courses would not be appropriate for specific majors or for the general education requirements for graduation. Students should check the current catalog of the institution of transfer to determine which courses are appropriate.

Courses numbered 300-399 are intended for certificate and associate degree programs. In some cases, with special arrangements, they may be acceptable for transfer to some four-year universities.

Courses numbered 400-499 are primarily vocational credit courses that are not applicable to the associate degree programs and do not transfer to four-year institutions.

Courses numbered 500-599 are college preparatory in nature and are not applicable to the associate degree programs and do not transfer to four-year institutions.

Cooperative Work Experience (149/302): Cooperative Work Experience courses provide on-the-job learning related to a student’s educational or occupational goals, and are offered by numerous disciplines. See “Cooperative Work Experience” on page 133 for a more complete description.

Experimental Courses (179, 379, 479, 579): Formerly known as “Workshop,” these courses are designed in specific disciplines to test new curriculum before adopting it as part of an academic program. See “Experimental Courses” on page 160 for a more complete description of the concept.

Independent Projects (189/389): These courses are academic opportunities for students who are capable of independent work and who demonstrate the need or desire for additional study beyond the regular curriculum. See “Independent Projects” on page 175 for a more complete description of the concept.

Special Topics Courses (199/399/499/599): Formerly known as “Institutes” or “Topics In,” these courses are designed to meet specific and unique curriculum need within the college’s service area. These courses address a specific topic relating to a discipline and are not offered on a regular cycle (not within a two-year period). These courses are not included in any major core, but may be among the elective units of a program.

Acceptable for Credit: This designation identifies the course and unit transferability to the CSU and UC systems.

CSU - accepted towards graduation at all California State University campuses.

UC - accepted towards graduation at all University of California campuses.

UC – CL (Credit Limitation) - limited number of units accepted towards graduation at all University of California campuses.

UC–DAT (Determined After Transfer) - acceptance towards graduation at the UC campus is determined after the student has transferred. Course units may not be applied for the UC 60-unit admission requirement.

Variable Level Courses: The board of trustees has authorized that certain courses may be repeated for credit. Courses so designated will provide for increasing competency levels of performance. A student attempting to enroll in such a class in excess of the approved repetitions will be prevented from registering in that course. Please check this catalog for identification of variable level courses and the number of times they may be repeated.

Course Requirements: Course descriptions include skill requirements or recommended levels of preparation as follows:

Prerequisite: A prerequisite is a course (or equivalent skills or prior experience) that a student must complete with a grade of “C” or better (or possess) before enrolling in a more advanced course. A prerequisite is a course needed before a student may register for a subsequent course. If a student believes the prerequisite has been met by other means, an appeal for prerequisite equivalency can be filed with the dean of counseling and matriculation. Deadlines for submission of an appeal are printed in the Prerequisites, Corequisites and Advisories link on myHancock at http://www.hancockcollege.edu/Default.asp?Page=501.

Corequisite: A corequisite is a course that must be taken prior to or at the same time the student is enrolling in the desired course. Deadlines for submission of an appeal are printed in the Prerequisites, Corequisites and Advisories link on myHancock at http://www.hancockcollege.edu/Default.asp?Page=501.

Advisory: An advisory is a course that a student is encouraged, but not required, to take before enrolling in a more advanced course. The advisory course will, in all likelihood, enhance a student’s learning in the advanced course.

Limitation on enrollment: Enrollment is subject to limitations based on reasons of:

1. health and safety; or
2. in cases of intercollegiate competition or public performance courses, allocation of available seats to those students judged most qualified and providing such courses are not core requirements for a major or a general education requirement for which there is no other course available; or one or more sections of a course are limited to a cohort of students when other sections of the same course are available for open enrollment.

Field Trips: Certain courses have field trips scheduled as a regular part of the course. Some of these trips are scheduled for the evening, and some for Saturdays or other days when the college is not usually in session. These trips are scheduled far enough in advance to give the student ample time for planning. Unless specifically advised otherwise, students are responsible for arranging their own transportation to and from the class site. The district assumes no liability or responsibility neither for the transportation nor for any person driving a personal vehicle who is not an agent of the district.
Grading Options:
P/NP  pass/no pass
GR/P/NP  grade or pass/no pass
GR  letter grade only

Travel Courses: The possibility of offering enriched experiences to students through travel in both the United States and in foreign countries has been recognized by the college, and certain courses may be presented as travel classes during vacation time. Any travel class offered is equivalent to the same offering on campus and the student workload and testing is comparable to that on campus. The college assumes no responsibility for travel expenses, living costs or incidental expenses incurred by anyone participating in a travel class. Because of enrollment demands, expenses, housing and travel arrangements and other special considerations, travel classes will be offered only when student interest and other factors make them appropriate.

Semester in which a course is usually offered:
F  = fall only          UF = summer, fall
S  = spring only       F1 = fall, odd years
U  = summer only       F2 = fall, even years
W  = winter only       S1 = spring, odd years
FSU = fall, spring, summer  S2 = spring, even years
FS = fall, spring     A = as needed
SU = spring, summer   D = contact department

ACCOUNTING

ACCT 100 Survey of Accounting  3 units
Acceptable for Credit: CSU
This course is Tech Prep articulated. A survey of financial and managerial accounting theory and practice with an emphasis on the user versus preparer perspective. This course is not open to students who have received credit for ACCT 101. (F,S,U) (GR/P/NP)

ACCT 130 Financial Accounting  3 units
Acceptable for Credit: CSU, UC
An introduction to the role of financial accounting in business and society and the accounting process. Topics include recognition, measurement and classification of business events; analyzing and recording financial transactions; conceptual foundation of financial reporting; and the usefulness of financial statements for decision making. This course is not open to students who have received credit for ACCT 121 and/or ACCT 122. (F,S) (GR)

ACCT 140 Managerial Accounting  3 units
Acceptable for Credit: CSU, UC
Prerequisite: ACCT 130 or ACCT 121 and ACCT 122
Introduces the analysis and techniques for aiding management in planning and controlling decisions, and the use of accounting data for budgeting, cost control, pricing, evaluation of performance and general decision making. This course is not open to students who have received credit for ACCT 123 and/or ACCT 124. (F,S) (GR)

ACCT 150 Introduction to Accounting Information Systems  3 units
Acceptable for Credit: CSU
Prerequisite: ACCT 130 or ACCT 121 and ACCT 122
An introduction to the development and analysis of accounting information systems including the use of a commercially-used small business accounting management system (QuickBooks). This course is not open to students who have received credit for ACCT 110. (F,S) (GR)

ACCT 160 Introduction to Financial Statement Analysis  3 units
Acceptable for Credit: CSU
Prerequisite: ACCT 130 or ACCT 121 and ACCT 122
An introduction to the analysis, interpretation and research of financial statement information. (F,S) (GR)

ACCT 170 Introduction to Tax Accounting  3 units
Acceptable for Credit: CSU
A survey of the laws, procedures, returns and subsidiary schedules involved in the preparation of federal and state personal tax returns. This course meets the continuing education requirements of the California Tax Preparer Program. This course is not open to students who have completed ACCT 305. (F,S) (GR)

ACCT 317 Bookkeeping  3 units
Prerequisite: ACCT 316
A study of basic bookkeeping practices using accrual accounting concepts for sole proprietorships, with emphasis on manual techniques of data entry and financial statement preparation. (F) (GR/P/NP)

ACCT 318 Bookkeeping 2  3 units
Prerequisite: ACCT 317
A study of basic bookkeeping practices using accrual accounting concepts for partnerships and merchandising businesses, with emphasis on manual techniques of data entry and financial statement preparation. (F,S,U) (GR/P/NP)

ACCT 327 Payroll Accounting  3 units
A study of payroll computations, payroll record keeping and the filing of quarterly and annual payroll tax reports. Topics include state disability insurance, unemployment insurance and income taxes. Introduces, at the federal level, Social Security, unemployment insurance and income tax and how these taxes affect the employee/employer. (S) (GR/P/NP)

ACCT 399 Special Topics in Accounting  0.5 to 3 units
For course description, see “Special Topics.”

ADMINISTRATION OF JUSTICE

AJ 101 Administration of Justice System  3 units
Acceptable for credit: CSU, UC
Presents the history and philosophy of administration of justice in America; recapitulation of the system; identification of the various subsystems, role expectations and their interrelationships; theories of crime, punishment and rehabilitation; and ethics, education and training for professionalism in the system. (F,S) (GR/P/NP)

AJ 102 Principles and Procedures of the Justice System  3 units
Acceptable for credit: CSU
The role and responsibilities of each segment within the administration of justice system: law enforcement, judicial, corrections. A past, present and future exposure to each subsystem procedure from initial entry to final disposition and the relationship each segment maintains with its system members. (S) (GR/P/NP)
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<tr>
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<th>Course Title</th>
<th>Units</th>
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<td>Concepts of Criminal Law</td>
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<td>AJ 104</td>
<td>Legal Aspects of Evidence</td>
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<td>AJ 105</td>
<td>Community Relations</td>
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<td>AJ 111</td>
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<td>AJ 119</td>
<td>Cooperative Work Experience: Occupational</td>
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<tr>
<td>AJ 189</td>
<td>Independent Projects in Administration of Justice</td>
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<tr>
<td>AJ 306</td>
<td>Technical Police Report Writing</td>
<td>1.5</td>
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<tr>
<td>AJ 307</td>
<td>Narcotics Investigation</td>
<td>1.5</td>
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<tr>
<td>AJ 308</td>
<td>Drugs &amp; Drug Dependency</td>
<td>1.5</td>
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<tr>
<td>AJ 309</td>
<td>Introduction to Criminology</td>
<td>3</td>
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<tr>
<td>AJ 315</td>
<td>Special Topics in Administration of Justice</td>
<td>0.5 to 3</td>
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<tr>
<td>AG 101</td>
<td>Intro to Winemaking/Enology</td>
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<tr>
<td>AG 102</td>
<td>Introduction to Viticulture</td>
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<tr>
<td>AG 103</td>
<td>Sensory Evaluation of Wine</td>
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</tbody>
</table>

**AJ 103 Concepts of Criminal Law**
Acceptable for credit: CSU, UC
Historical development, philosophy of law and constitutional provisions, definitions, classification of crime and their application to the system of administration of justice; legal research; study of case law; methodology; and concepts of law as a social force. (F) (GR/P/NP)

**AJ 104 Legal Aspects of Evidence**
Acceptable for credit: CSU
Advisory: AJ 103 is strongly recommended.
Origin, development, philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest; search and seizure; kinds and degrees of evidence and rules governing admissibility; and judicial decisions interpreting individual rights and case studies. (F) (GR/P/NP)

**AJ 105 Community Relations**
Acceptable for credit: CSU, UC
Exploration of the roles of the administration of justice practitioners and their agencies. Through interaction and study the student will become aware of the interrelationships and role expectations among the various agencies and the public. Principal emphasis will be placed upon the professional image of the system of justice administration and the development of positive relationships between members of the system and the public. (S) (GR/P/NP)

**AJ 111 Criminal Investigation**
Acceptable for credit: CSU
Fundamentals of investigation; collection and preservation of physical evidence; scientific aids; modus operandi; sources of information; fingerprints, polygraph and follow-up; and case preparation. (F) (GR/P/NP)

**AJ 119 Independent Projects in Administration of Justice**
Acceptable for credit: CSU, UC-DAT
For course description, see “Independent Projects.”

**AJ 189 Independent Projects in Administration of Justice**
Acceptable for credit: CSU, UC-DAT
For course description, see “Independent Projects.”

**AG 101 Intro to Winemaking/Enology**
Acceptable for credit: CSU, UC
An examination of enology (winemaking) including history, grape growing, chemistry, wine microorganisms, fermentation, winemaking operations, coöperation, physiology and sociology of wine and health and legal issues. (F,S) (GR/P/NP)

**AG 102 Introduction to Viticulture**
Acceptable for credit: CSU, UC
An introduction to viticulture including grape growing, biology, anatomy, history, distribution, propagation, varieties, wine types, climate and common diseases and pests. (F,S) (GR/P/NP)

**AG 103 Sensory Evaluation of Wine**
Acceptable for credit: CSU
Limitation on enrollment: Must be 21 years of age or older
An exploration of the principles of sensory wine evaluation. Demonstrates how wine quality is affected by climate, viticulture practices, production techniques, grape varieties, vineyard location, oak aging and storage conditions. Participants will survey and evaluate commercial wine styles. (F,S) (GR/P/NP)
AG 104 Advanced Wine Evaluation 3 units
Acceptable for credit: CSU
Limitation on enrollment: Must be 21 years of age or older
Prerequisite: AG 103
An investigation of Bordeaux, Burgundian and Rhone varietals from regions where they occur worldwide – France, USA, Chile, Italy, Australia, New Zealand and Germany. Focuses on geography/soils, enological considerations, viticulture practices, wine production techniques and styles produced. (S) (GR/P/NP)

AG 105 Wine Marketing and Sales 3 units
Acceptable for credit: CSU
An introductory overview of the wine industry, production, planning, marketing channels, advertising, promotion, packaging, pricing, retail/wholesale distribution and public relations. (A) (GR/P/NP)

AG 106 Winery Organization 3 units
Acceptable for credit: CSU
Presents the many aspects of operating a small to medium-sized winery in today's business environment. Topics include an overview of the California grape and wine industry, government compliance, financial planning (capital and operating budgets), grape supply options, grape contracts, winery design and systems, quality control, sales planning and packaging, as well as marketing and distribution options. (F,S) (GR/P/NP)

AG 111 Global Positioning Systems (GPS) 1 unit
Acceptable for credit: CSU
An introduction to satellite navigation and location using the U.S. global positioning system, NAVSTAR. Topics include fundamentals of cartography (map reading and navigation, map scale, projections and coordinate systems); how satellites can be used to determine accurate location; collection of field location data using a variety of GPS receivers; and entry and display of locational data in a geographic information system (GIS). This course is not open to students who are enrolled in or have received credit for GIS 111. (F) (GR/P/NP)

AG 112 Fundamentals of Mapping with GIS 3 units
Acceptable for credit: CSU
Advisory: CBIS 101
An introduction to mapping sciences with a primary focus on GIS. Includes the history, structure, uses, hardware and software requirements, as well as the basic operation of GIS. Other geographic technologies (aerial photography, remote sensing and global positioning systems) as they relate to GIS are examined. Recommended for those who use or anticipate using any of the many types of data that can be mapped. This course is not open to students who are enrolled in or have received credit for GIS 112. (F,S) (GR/P/NP)

AG 114 Wine Business 3 units
Acceptable for credit: CSU
This course will cover the basics of wine business for commercial wine production, sales, marketing, logistics, compliance and administration. The class combines short lecture and hands-on experiences to gain practice with, and examine the limitation of, each analysis. The student will work in small groups analyzing regional wine industries. (F,S) (GR/P/NP)

AG 120 Viticulture Operations 1 3 units
Acceptable for credit: CSU
Advisory: AG 102
Vineyard practices for the fall and winter seasons, including harvest, pruning, fertilization, weed control, erosion control and propagation. Laboratory work will stress practical applications of viticulture theory. Operations in commercial vineyards will be studied through field trips. (S) (GR/P/NP)

AG 121 Viticulture Operations 2 3 units
Acceptable for credit: CSU
Advisory: AG 102
Vineyard practices for the spring and summer seasons including cultivation, frost control, planting, training, irrigation, disease and pest control. Laboratory work will stress practical applications of viticulture theory. Operations in commercial vineyards will be studied through field trips. (S) (GR/P/NP)

AG 122 Viticulture Operations 3 1 unit
Acceptable for credit: CSU
Advisory: AG 121
Vineyard practices for the summer season including canopy management, crop load assessment and adjustment, pest and disease monitoring and management, weed control, irrigation and grape quality improvement techniques. (U) (GR/P/NP)

AG 125 Soils and Plant Nutrition 4 units
Acceptable for credit: CSU, UC
Advisory: CHEM 120
A study of the physical, chemical and biological properties of soils, including plant nutrition and factors affecting the availability of nutrients. Composition, value, use and application of fertilizer materials and soil amendments will be covered. (F,S) (GR/P/NP)

AG 130 Integrated Pest Management for Grapes 4 units
Acceptable for credit: CSU
Prerequisite: AG 102
A study of the various pests and diseases found in the Central Coast wine grape vineyards, emphasizing pest and disease identification, sampling and monitoring techniques and control methods. Integrated pest management approaches will be emphasized, including the latest bio-control strategies, biotechnological advances, and disease modeling for risk management. Students will visit local vineyards, providing "hands-on" learning opportunities. (A) (GR/P/NP)

AG 134 Internship Seminar 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
Advisory: Concurrent enrollment in AG 149, CWE 149 or CWE 302
Provides students with a seminar format to discuss, analyze and critically evaluate their work-based learning experiences. This forum emphasizes job market information, attitudes and abilities that facilitate job success; skills necessary for maintaining employment; and techniques for enhancing job advancement opportunities. See Cooperative Work Experience 134 in the schedule for specific enrollment information. (F,S) (GR)
AG 135 Grapevine Physiology 1 unit
Acceptable for credit: CSU
Advisory: AG 102
An advanced study of grapevine physiology and phenology. Topics include vine balance, flowering and fruit set, stages of berry growth and vine water status. This course is designed for those working in the wine grape industry and already familiar with vineyard operations. (A) (GR/P/NP)

AG 140 Viticulture Operations 4 3 units
Acceptable for credit: CSU
Advisory: AG 120
Advanced vineyard practices for the fall season including crop projection, grape quality assessment, grape maturity monitoring, harvest coordination, post-harvest practices and budgeting. Management planning and financial aspects of the operations are emphasized. (F) (GR/P/NP)

AG 141 Viticulture Operations 5 3 units
Acceptable for credit: CSU
Advisory: AG 121
Advanced vineyard practices for the winter and spring seasons including vine balance determination, pruning, cover crop management, frost protection, vine training, vineyard research trials and budgeting. Management planning and financial aspects of the operations are emphasized. (S) (GR/P/NP)

AG 142 Viticulture Operations 6 1 unit
Acceptable for credit: CSU
Advisory: AG 122
Advanced vineyard practices for the summer season including equipment operation and maintenance, vine training, vineyard research trials and budgeting. Management planning and financial aspects of the operations are emphasized. (U) (GR/P/NP)

AG 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”

AG 151 Winery Equipment 2 units
Acceptable for credit: CSU
Presents all aspects of winery equipment: function, use, location, safe operation and repair. A strong emphasis is placed on safety and legal compliance. Production, storage and packaging equipment are included. (F) (GR/P/NP)

AG 179, 379 Experimental Courses in Agribusiness 0.5 to 10 units
179 - Acceptable for credit: CSU, UC-DAT
For course description, see “Experimental Courses.”

AG 189 Independent Projects in Agribusiness 1 to 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Independent Projects.”

AG 199, 399 Special Topics in Agribusiness 0.5 to 3 units
199 - Acceptable for credit: CSU, UC-DAT
For course description, see “Special Topics.”

AG 301 Pairing Wine and Food 0.5 unit
Limitation on enrollment: Must be 21 years of age or older
Designed to familiarize students with the components of tasting wine and food, to develop wine evaluation techniques and to pair wines with appropriate food. (F,S,U) (GR/P/NP)

AG 302 Advanced Pairing Wine and Food 0.5 unit
Limitation on enrollment: Must be 21 years of age or older
Prerequisite: AG 301
An advanced study of the components of tasting wine and food. (F,S,U) (GR/P/NP)

AG 303 Epicurean Wine & Food 0.5 unit
Limitation on enrollment: Must be 21 years of age or older
Prerequisite: AG 302
Designed for advanced students wishing to expand their knowledge of wine and food pairings. Focuses on European as well as California wines with appropriate regional food. (F,S,U) (GR/P/NP)

AG 304 Dessert Wine & Food Pairing 0.5 unit
Limitation on enrollment: Must be 21 years of age or older
Prerequisite: AG 303
Designed for advanced students wishing to expand their knowledge of specific wine and dessert pairings. Champagnes, sparkling wines and a variety of dessert wines (ports, sherries, Madiera) will be presented. (F,S,U) (GR/P/NP)

AG 305 Pairing the Wines & Foods of Provence 0.5 unit
Limitation on enrollment: Must be 21 years of age or older
Prerequisite: AG 303
Designed for advanced students wishing to expand their knowledge of wine and food pairings. Focuses on the distinctive foods and wines of the Provence region in southern France. (F,S,U) (GR/P/NP)

AG 306 Pairing the Wines and Foods of Tuscany 0.5 unit
Limitation on enrollment: Must be 21 years of age or older
Prerequisite: AG 303
Designed for advanced students wishing to expand their knowledge of specific wine and food pairings. Focuses on the distinctive foods and wines of the Tuscan region in northern Italy. (F,S,U) (GR/P/NP)

AG 307 Vineyard Irrigation 3 units
Acceptable for credit: CSU
Students will receive a general background in vineyard irrigation water management, including theory and practice lectures. Vineyard water stress monitoring, ETO, crop coefficients and drip irrigation topics will be covered. (F,S,U) (GR/P/NP)
AG 308 Wine Analysis 3 units
Students will receive a general background in wine analysis with theory and demonstrations. Most common and important wine analysis in current winemaking industry settings will be practiced in teams providing hands-on experience. (S) (GR/P/NP)

AG 310 Basic Winemaking 1 2 units
Limitation on enrollment: Must be 21 years of age or older
Advisory: AG 101
The first course in a two-semester sequence, students are introduced to winemaking from grape harvest through bottling. (F) (GR/P/NP)

AG 311 Basic Winemaking 2 2 units
Limitation on enrollment: Must be 21 years of age or older
Prerequisite: AG 310 Advisory: AG 101
The second course in a two-semester sequence, students will chemically analyze, fine and bottle the red and white wines that were fermented in the previous semester. (S) (GR/P/NP)

AG 312 Viticulture II 3 units
This class prepares students to understand and make decisions about the viticultural process including canopy management, frost protection, specific deficit irrigation, morphology and physiology of the grapevine. (S) (GR/P/NP)

AG 314 Organic/Biodynamic Wine 3 units
Introduction to professional organic and biodynamic wine grape production with ecological production methods. Theory and practice with an emphasis on regional growing conditions. Includes appropriate planting, maintenance, soil fertility, biodiversity and ecological pest management as well as winery practices. Cost analysis of alternatives is explored. (S) (GR/P/NP)

AG 315 Fertilizers and Plant Nutrition 4 units
This course will provide an introduction to fertilizers and plant nutrition. Essential nutrients for plant development will be studied as well as deficiency symptoms and methods for correcting these deficiencies. Fertilizer and other soil amendments will be studied as well as the proper management and application methods for these products. (F,S) (GR/P/NP)

AG 320 Wine Tasting Room Sales 1.5 units
Presents all aspects of wine tasting room service and sales. Cellar clubs, selling techniques, wine vocabulary and the laws and regulations of serving wine in California will be covered. Legalities of shipping wine interstate and the various means of wine shipment are discussed. (S,U) (GR/P/NP)

AG 360 Advances in Viticulture 0.5 unit
Acceptable for credit: CSU
Advisory: AG 102
Provides an opportunity for critical evaluation and discussion of selected viticultural research papers. Study of peer-review journals is intended to broaden the educational experience beyond the textbook and increase understanding in the areas of vineyard practices and fruit quality. (F,S) (GR/P/NP)

AG 361 Advances in Enology 0.5 unit
Acceptable for credit: CSU
Advisory: AG 101
Provides an opportunity for critical evaluation and discussion of selected enological research papers. Study of peer-review journals is intended to broaden the educational experience beyond the textbook and increase understanding in the areas of enological practices and wine quality. (F,S) (GR/P/NP)

AG 362 Advances in Enology 1 unit
Acceptable for credit: CSU
Advisory: AG 101
Provides an opportunity for critical evaluation and discussion of selected enological research papers. Study of peer-review journals is intended to broaden the educational experience beyond the textbook and increase understanding in the areas of enological practices and wine quality. (F,S) (GR/P/NP)

ASL 120 American Sign Language 1 3 units
Acceptable for credit: CSU, UC
An introductory course in American Sign Language which presents basic sign vocabulary and grammar, the manual alphabet and topics related to signing and deafness. (F,S) (GR/P/NP)

ASL 121 American Sign Language 2 3 units
Acceptable for credit: CSU, UC
Prerequisite: ASL 120
A continuation of ASL 120, emphasizing receptive and expressive skills, aspects of ASL grammar, vocabulary, literature, subcultures within the deaf community and the various education regimes for deaf children in the United States. (F) (GR/P/NP)

ASL 124 American Sign Language 3 3 units
Acceptable for credit: CSU, UC
Prerequisite: ASL 121 and completion of or concurrent enrollment in ENGL 110.
Continuing development of skills learned in ASL 121 emphasizing ASL grammar, vocabulary and idiomatic constructions. Provides an opportunity for further development of conversational techniques, focusing on expressive and receptive skill. Deaf cultural issues, non-manual markers, advanced classifiers and numbering systems will be explored. (F2,S1) (GR/P/NP)

ASL 130 Conversational ASL 3 units
Acceptable for credit: CSU
Prerequisite: ASL 120
Designed to improve conversational skills in American Sign Language by increasing vocabularies and perfecting grammatical structures. Emphasis is on improving expressive and receptive skills. (S) (GR/P/NP)

ASL 138 History of Deaf 3 units
Acceptable for credit: CSU, UC
A culturally diverse exploration of the deaf from Aristotle to the present. Focus is on the ideas, events and laws that have shaped the community as viewed through literature, folklore, art and philosophy. Interrelationship of societies is emphasized. This course is not open to students who are enrolled in or have received credit for HIST 138. (S) (GR/P/NP)

ASL 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”
Dissociation, out-of-body states, near-death experiences, substance use and abuse, sleep, dreams, hypnosis, consequences. Topics include theories of consciousness, means of attaining those states, their uses, misuses and applications. An exploration of different states of consciousness, the consequences of physical anthropology by focusing on human osteology and the paleoanthropological fossil record. Students will become familiar with the materials and techniques, theories, genetics, anthropometric techniques, primatology, hominid evolution. Concurrent enrollment in ANTH 110 is encouraged. (F,S,U) (GR/P/NP)

ANTH 101 Intro to Physical Anthropology 3 units
Acceptable for credit: CSU, UC
An introductory exploration to the history of evolutionary thought, the biological basis of life, genetics, population biology, modern human variation, paleontology, primatology and hominid evolution. (F,S,U) (GR/P/NP)

ANTH 102 Intro to Cultural Anthropology 3 units
Acceptable for credit: CSU, UC
A study of human cultural variation and diversity. Topics include types of anthropological research, similarities and differences in human behavior, social institutions and life styles. (F,S,U) (GR/P/NP)

ANTH 103 Introduction to Archaeology 3 units
Acceptable for credit: CSU, UC
An introduction to human prehistory including major cultural developments and themes of the prehistoric past. Topics include fundamental principles of archaeology and human prehistory from earliest times up to the development of literate civilizations. Scientific methods used by archaeologists will also be covered. (S2) (GR/P/NP)

ANTH 105 Language and Culture 3 units
Acceptable for credit: CSU, UC
An introduction to the study of language and communication in relation to culture. Focus is on the structure, function and history of language as well as the social, symbolic and practical uses of language. Linguistic concepts, methodologies and theoretical assumptions will be explored. Topics include language in everyday life and ritual events, socialization, multilingualism, miscommunication and art-making as cultural activity. This course is not open to students who are enrolled in or have received credit for ENGL 105. (F,S) (GR/P/NP)

ANTH 110 Physical/Biological Anthropology Lab 1 unit
Acceptable for credit: CSU, UC
Corequisite: ANTH 101 or completion of ANTH 101 within the last two years
An introductory exploration of micro-macro evolutionary theory, genetics, anthropometric techniques, primatology, human osteology and the paleoanthropological fossil record. Students will become familiar with the materials and techniques of physical anthroplogy by focusing on human variation and evolution. (F,S,U) (GR/P/NP)

ANTH 122 States of Consciousness 3 units
Acceptable for credit: CSU
An exploration of different states of consciousness, the means of attaining those states, their uses, misuses and consequences. Topics include theories of consciousness, substance use and abuse, sleep, dreams, hypnosis, dissociation, out-of-body states, near-death experiences, psychic and paranormal phenomena, religious ecstasy and conversion, alternative religions, meditation and prayer, culture-bound syndromes, non-Western methods of altering consciousness and peak experiences. This course is not open to students who are enrolled in or who have received credit for PSY 122 or HUSV 122. (F,S) (GR/P/NP)

ANTH 179, 379 Experimental Courses in Anthropology 0.5 to 10 units
179 - Acceptable for credit: CSU, UC-DAT
For course description see “Experimental Courses.”

ANTH 199 Special Topics in Anthropology 0.5 to 3 units
Acceptable for credit: CSU, UC-DAT
For course description, see “Special Topics.”

ANTH 189 Independent Projects in American Sign Language 1 to 3 units
Acceptable for credit: CSU, UC-DAT
Course may be repeated three times. For course description, see "Independent Projects."

ANTH 101 Intro to Physical Anthropology 3 units
Acceptable for credit: CSU, UC
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For course description, see “Special Topics.”

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Acceptable for credit: CSU, UC-DAT
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Acceptable for credit: CSU, UC
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ANTH 122 States of Consciousness 3 units
Acceptable for credit: CSU
An exploration of different states of consciousness, the means of attaining those states, their uses, misuses and consequences. Topics include theories of consciousness, substance use and abuse, sleep, dreams, hypnosis, dissociation, out-of-body states, near-death experiences, psychic and paranormal phenomena, religious ecstasy and conversion, alternative religions, meditation and prayer, culture-bound syndromes, non-Western methods of altering consciousness and peak experiences. This course is not open to students who are enrolled in or who have received credit for PSY 122 or HUSV 122. (F,S) (GR/P/NP)

ANTH 179, 379 Experimental Courses in Anthropology 0.5 to 10 units
179 - Acceptable for credit: CSU, UC-DAT
For course description see “Experimental Courses.”

ANTH 199 Special Topics in Anthropology 0.5 to 3 units
Acceptable for credit: CSU, UC-DAT
For course description, see “Special Topics.”

The primary objective of the apprenticeship program is to train workers in skilled occupations to meet the needs of the industry. The program is open to all individuals 18 years of age or older without regard to race, color, religion, national origin or sex.
Applications or information concerning applications may be obtained from the industrial technology department.
The major training received by an apprentice is on the job working for a signatory contractor or employer. Therefore, enrollment in all courses listed under apprenticeship training is limited to indentured apprentices and qualified applicants.

APRN 481 Electricity 3 units
Course may be repeated seven times.
Prerequisite: Registration is limited to indentured apprentices and those awaiting indenture.
Provides classroom theory directly related to skills performed at the work site, including tools and equipment, electrical principles and applications to basic AC-DC circuitry, motors, generators, controls, transformers, electrical codes and ordinances, related mathematics and drawing and safety practices. (F,S) (GR)

APRN 484 Plumbing 3 units
Course may be repeated nine times.
Prerequisite: Registration is limited to indentured apprentices and those awaiting indenture.
Provides classroom theory directly related to skills performed at the work site, including tools and equipment, materials, fixtures, layout, installation practices, blueprint reading, related mathematics, laws and regulations, safety practices and employer-employee relations. (F,S) (GR)

APRN 486 Operating Engineers 3 units
Course may be repeated seven times.
Prerequisite: Registration is limited to indentured apprentices and those awaiting indenture.
Provides classroom theory directly related to skills performed at the work site, including the repair and operation of heavy-duty equipment; related mathematics and science, particularly as they pertain to the electrical and hydraulic systems; and first aid and safety practices. The total program is designed for specialization in heavy duty mechanics. (F,S) (GR)
### ARCHITECTURE

**ARCH 111 Architectural Graphics** 3 units  
*Acceptable for credit: CSU, UC*  
Covers the basic techniques of architectural graphics, including orthographic, paraline and mechanical perspectives with shades and shadows.  
(S) (GR/P/NP)

**ARCH 112 Architectural Delineation** 3 units  
*Acceptable for credit: CSU, UC*  
Prerequisite: ARCH 111  
The study of three-dimensional representations using various media to render architectural designs.  
(F) (GR/P/NP)

**ARCH 121 Architectural Drawing 1** 4 units  
*Acceptable for credit: CSU*  
The first course in a two-semester sequence that prepares the student to enter the construction field as a drafter. Emphasizes the planning and development of a set of residential plans that may be submitted for plan check approval. The first semester presents an overview of planning and building, particularly plans and schedules.  
(S) (GR/P/NP)

**ARCH 122 Architectural Drawing 2** 4 units  
*Acceptable for credit: CSU*  
The second course in a two-semester sequence that prepares the student to enter the construction field as a drafter. Emphasizes the planning and development of a set of residential plans that may be submitted for plan check approval. The second semester covers structural details, energy and mechanical requirements and a study of fire resistive materials and finishes.  
(F) (GR/P/NP)

**ARCH 131 Materials of Construction 1** 3 units  
*Acceptable for credit: CSU*  
Advisory: Concurrent enrollment in ARCH 121 is recommended.  
A general survey of the components, materials, types and methods of building construction; terminology as applied to codes; foundations, concrete, light frame wood, heavy timber, soils and the structural elements. This course is strongly recommended for those who are entering the construction industry.  
(A) (GR/P/NP)

**ARCH 160 Digital Tools in Architecture** 3 units  
*Acceptable for credit: CSU*  
Advisory: ARCH 111  
Introduces computer design and presentation skills for architecture students. Topics include image editing, page layout and 3D modeling. This course is not open to students who are enrolled in or have received credit for ET 160.  
(A) (GR/P/NP)

**ARCH 179, 379 Experimental Courses in Architecture** 0.5 to 10 units  
179 - *Acceptable for credit: CSU, UC-DAT*  
For course description, see "Experimental Courses."

**ARCH 320 Uniform Building Code** 3 units  
Introduces the student to the purpose and use of the Uniform Building Code and prepares the student to make job site judgments based on the code.  
(A) (GR/P/NP)

**ARCH 321 International Building Code** 3 units  
Introduces the student to the purpose and use of the International Building Code and prepares the student to make design and job site judgments based on the code.  
(A) (GR/P/NP)

### ART

**ART 101 Art Appreciation** 3 units  
*Acceptable for credit: CSU, UC*  
A study of the visual arts as an expression of thought and culture.  
(F, S) (GR/P/NP)

**ART 103 Art History Survey—Ancient to Medieval** 3 units  
*Acceptable for credit: CSU, UC*  
Advisory: Art 103 is recommended.  
A survey of painting, sculpture and architecture in the western world from Renaissance to modern times.  
(S) (GR/P/NP)

**ART 104 Art History Survey—Renaissance to Modern** 3 units  
*Acceptable for credit: CSU, UC*  
A survey of the art of Mesoamerica, tracing the cultural development of the Valley of Mexico and the Yucatan Peninsula from the earliest archaeological findings to the present time.  
(A) (GR/P/NP)

**ART 105 Art History Survey—Art of Mexico** 3 units  
*Acceptable for credit: CSU, UC*  
A survey of painting, sculpture and architecture in the western world from Renaissance to modern times.  
(S) (GR/P/NP)

**ART 106 Art of the 20th Century** 3 units  
*Acceptable for credit: CSU, UC*  
Advisory: Art 103 and ART 104  
A survey of art of the 20th century including its roots in the 19th century. Topics include the investigation of appropriation from a global perspective, alternative art markets and the impact of multiculturalism on content, subject matter and the studio process. A variety of media are covered such as architecture, painting, sculpture, film, photography and the digital arts.  
(A) (GR/P/NP)

**ART 107 Computer Fine Art** 3 units  
*Acceptable for credit: CSU*  
Course may be repeated one time.  
An examination of the styles and techniques of computer fine art.  
(GR/P/NP)

**ART 108 Design 1 on the Computer** 3 units  
*Acceptable for credit: CSU*  
A basic study of visual design elements and principles, using the computer. This course is not open to students who are enrolled in or have received credit for GRPH 108.  
(F, S) (GR/P/NP)

**ART 109 Art History Survey—American Art** 3 units  
*Acceptable for credit: CSU, UC*  
A comprehensive survey of the rich cultural diversity of American art from Colonial times to the present. Major artists and styles will be studied in the context of American culture.  
(F, S) (GR/P/NP)
ART 110 Design 1 3 units
Acceptable for credit: CSU, UC
An introduction to the elements and principles of design. (F,S) (GR/P/NP)

ART 112 Design Color Theory 3 units
Acceptable for credit: CSU, UC
Prerequisite: ART 110 or ART 108 or GRPH 108
An intensive study and application of color theory. (S2) (GR/P/NP)

ART 113 Three-Dimensional Design 3 units
Acceptable for credit: CSU, UC
Prerequisite: ART 110
Investigates a series of spatial design problems as they might apply to professional fields, including architecture, interior design, display and sculpture. (A) (GR/P/NP)

ART 115 Introduction to Animation 3 units
Acceptable for credit: CSU
An introduction to animation production including classical character animation and nontraditional techniques. This course is not open to students who are enrolled in or have received credit for MMAC 115. (F,S) (GR/P/NP)

ART 120 Drawing 1 3 units
Acceptable for credit: CSU, UC
An exploration of freehand drawing using a variety of drawing media with emphasis on two- and three-dimensional spatial composition. (F,S,U) (GR/P/NP)

ART 121 Drawing 2 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Prerequisite: ART 120
A continuation of ART 120 with greater emphasis on pictorial composition, style and color drawing techniques. (S) (GR/P/NP)

ART 122 Life Drawing 1 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Prerequisite: ART 120
A fundamental course in the study of the human figure including anatomy, form, movement and composition. (A) (GR/P/NP)

ART 123 Life Drawing 2 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Prerequisite: ART 122
A continuation of life drawing in the study of the human figure. (A) (GR/P/NP)

ART 124 Mixed Media 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Advisory: ART 110 or ART 125 or ART 129
An exploration of a variety of traditional and distinctly unique two-dimensional art media as they relate to drawing and painting mediums. (F) (GR/P/NP)

ART 125 Painting in Acrylics 1 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Advisory: ART 110 and ART 120 are recommended
A study of acrylic painting techniques. (A) (GR/P/NP)

ART 126 Painting in Acrylics 2 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Prerequisite: ART 125
An intermediate course with emphasis on the development of an individual style in acrylic painting. (A) (GR/P/NP)

ART 127 Painting in Watercolor 1 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
A study of watercolor techniques. (A) (GR/P/NP)

ART 128 Painting in Watercolor 2 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Prerequisite: ART 127
An intermediate course with emphasis on the development of an individual style in watercolor painting. (A) (GR/P/NP)

ART 129 Painting in Oils 1 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Advisory: ART 110 and ART 120 are recommended
A study of oil painting techniques. (A) (GR/P/NP)

ART 130 Painting in Oils 2 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Prerequisite: ART 129
An intermediate course with emphasis on the development of an individual style in oil painting. (A) (GR/P/NP)

ART 131 Portraits 1.5 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Advisory: ART 120
A study of portrait drawing and painting. (F,S) (GR/P/NP)

ART 132 Landscape 1.5 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Prerequisite: ART 130
An examination of the styles and techniques of landscape painting and drawing. (F,S) (GR/P/NP)

ART 133 Painting the Figure 1 0.5 unit
Course may be repeated three times.
Acceptable for credit: CSU,
Advisory: ART 120 and completion of or concurrent enrollment in ART 122
Painting the human figure, exploring color, composition and style. Students may choose to work in acrylics, oils, watercolors, pastels or other painting media. (F,S) (GR/P/NP)
<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDIT HOURS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 134 Painting the Figure 2</td>
<td>0.5 unit</td>
<td>Course may be repeated three times. Acceptable for credit: CSU Prerequisite: ART 133 An intermediate course in painting the human figure, with emphasis on personal style. Students may choose to work in acrylics, oils, watercolors, pastels, or other painting media. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 149 Cooperative Work Experience: Occupational</td>
<td>1 to 8 units</td>
<td>Course may be repeated three times. Acceptable for credit: CSU, UC For course description, see “Cooperative Work Experience: Occupational.”</td>
</tr>
<tr>
<td>ART 160 Ceramics 1</td>
<td>3 units</td>
<td>Acceptable for credit: CSU, UC Advisory: ART 160 An introduction to low-fire clay and glaze processes, using handbuilding forming techniques. (F,S,U) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 161 Ceramics 2</td>
<td>3 units</td>
<td>Acceptable for credit: CSU, UC Advisory: ART 160 A continuation of ART 160, including introduction to the potters wheel, mold making, slip casting and the extruder. Decorating techniques and all work continue in the low-fire temperature range. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 162 Ceramics 3</td>
<td>3 units</td>
<td>Acceptable for credit: CSU, UC Advisory: ART 160 Advanced study in ceramics, including an introduction to reduction fired stoneware clay, glazes and decorating techniques. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 163 Ceramics Workshop</td>
<td>3 units</td>
<td>Acceptable for credit: CSU, UC Advisory: ART 162 A continuation of ART 162 with individualized assignments. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 164 Sculpture 1</td>
<td>3 units</td>
<td>Acceptable for credit: CSU, UC A basic exploratory course in sculpture techniques and materials. (A) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 165 Sculpture 2</td>
<td>3 units</td>
<td>Acceptable for credit: CSU, UC Prerequisite: ART 164 A continuation of ART 164 with an emphasis on the development of an individual style using various sculpture materials and techniques. (A) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 179, 379 Experimental Courses in Art</td>
<td>0.5 to 10 units</td>
<td>179 - Acceptable for credit: CSU, UC-DAT For course description, see “Experimental Courses.”</td>
</tr>
<tr>
<td>ART 189 Independent Projects in Art</td>
<td>1 to 3 units</td>
<td>Course may be repeated three times. Acceptable for credit: CSU, UC-DAT For course description, see “Independent Projects.”</td>
</tr>
<tr>
<td>ART 199 Special Topics in Art</td>
<td>0.5 to 3 units</td>
<td>Acceptable for credit: CSU, UC For course description, see “Special Topics.”</td>
</tr>
<tr>
<td>ART 380 Art Lab (Ceramics) 1</td>
<td>0.5 unit</td>
<td>Course may be repeated three times. Corequisite: ART 160 or ART 161 or ART 162 or ART 163 as related to ceramics or ART 199 as related to ceramics. An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may enroll for any combination of ART 380 and ART 381 for a total of four semesters. Students may not be concurrently enrolled in ART 380 and ART 381. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ART 381 Art Lab (Ceramics) 2</td>
<td>1 unit</td>
<td>Course may be repeated three times. Corequisite: ART 160 or ART 161 or ART 162 or ART 163 as related to ceramics or ART 199 as related to ceramics. An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may enroll for any combination of ART 380 and ART 381 for a total of four semesters. Students may not be concurrently enrolled in ART 380 and ART 381. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ART 382 Art Lab (Sculpture) 1</td>
<td>0.5 unit</td>
<td>Course may be repeated three times. Corequisite: ART 164 or ART 165 An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may enroll for any combination of ART 382 and ART 383 for a total of four semesters. Students may not be concurrently enrolled in ART 382 and ART 383. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ART 383 Art Lab (Sculpture) 2</td>
<td>1 unit</td>
<td>Course may be repeated three times. Corequisite: ART 164 or ART 165 An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may enroll for any combination of ART 382 and ART 383 for a total of four semesters. Students may not be concurrently enrolled in ART 382 and ART 383. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ASTR 100 Elementary Astronomy</td>
<td>3 units</td>
<td>Acceptable for credit: CSU, UC A survey course introducing the general principles and fundamental facts of astronomy. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>ASTR 179 Experimental Courses in Astronomy</td>
<td>0.5 to 10 units</td>
<td>Acceptable for credit: CSU, UC-DAT For course description, see “Experimental Courses.”</td>
</tr>
</tbody>
</table>
ASTRONOMY 123 AUTOMOTIVE TECHNOLOGY

ASTR 189 Independent Projects in Astronomy 1 to 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Independent Projects.”

ATHLETIC TRAINING

ATH 104 Care/Prevention-Athletic Injuries 3 units
Acceptable for credit: CSU, UC
Advisory: Previous biology course is recommended.
Designed for prospective coaches, athletic trainers and health and physical education educators as an aid in the recognition, evaluation and care of athletic injuries. Emphasizes techniques in taping, prevention and rehabilitation of injuries. (F,S) (GR/P/NP)

ATH 106 Orthopedic Injury Assess/Rehab 3 units
Acceptable for credit: CSU
Designed for prospective kinesiology health professionals, including but not limited to athletic trainers, physical therapy aids, physical therapy assistants, physical therapists, health and physical education educators. The course will focus on the three areas of orthopedic care: theory and implementation of therapeutic modalities to athletic injuries; advanced recognition and assessment of orthopedic injuries; and application of rehabilitation programs for athletic injuries. (F,S) (GR/P/NP)

AUTO BODY TECHNOLOGY

AB 330 Print Reading & Interpretation 3 units
Prepares students to read engineering drawings and specifications and to enable them to understand the intent of the engineer by interpreting the relationship of twodimensional drawings with respect to actual objects or projects. This course is not open to students who are enrolled in or have received credit for AT 330 or ET 330 or MT 330. (A) (GR/P/NP)

AB 351 Auto Body—Metal 3 units
Designed to give the student a basic knowledge of automotive body work, including the essentials of metal collision repair. (F,S) (GR/P/NP)

AB 353 Auto Body—Repair 3 units
Prerequisite: AB 351
Designed to cover the major areas of body and frame straightening and aligning, as well as trims, glass and fiberglass. Attention is given to blend painting of damaged areas. (S) (GR/P/NP)

AB 354 Selected Auto Body Paint Projects 1 unit
Course may be repeated three times.
Prerequisite: AB 356
Projects selected by the student upon the recommendation of any faculty member and developed under the direct counseling and guidance of the instructional staff in the auto body technology disciplines. All work is completed within the auto body facilities under the direct supervision of the responsible instructor. The student must have the basic knowledge of painting techniques to complete the project. (A) (GR/P/NP)

AB 355 Selected Auto Body Metal Projects 1 unit
Course may be repeated three times.
Prerequisite: AB 351
Projects selected by the student upon the recommendation of any faculty member and developed under the direct counseling and guidance of the instructional staff in the auto body technology disciplines. All work is completed within the auto body facilities under the direct supervision of the responsible instructor. The student must have the basic knowledge of auto body metal repair/refinishing techniques to complete the project. (A) (GR/P/NP)

AB 356 Automotive Painting Techniques 3 units
A study of automotive painting techniques, including the preparation of materials, types of equipment, characteristics of paints and techniques of paint application. (F) (GR/P/NP)

AB 358 Automotive Refinishing 3 units
Prerequisite: AB 356
The application of prepping, masking, painting and detailing materials in automotive refinishing. (S) (GR/P/NP)

AB 360 Collision and Painting Repairs 5 units
Prerequisite: AB 353 and AB 358
Designed to increase students' skill and knowledge in the areas of major collision repair, frame and chassis straightening and custom body and painting, and to develop their abilities to achieve commercially acceptable speed levels. Also appropriate for those currently employed in the auto body trade. (S) (GR/P/NP)

AB 379 Experimental Courses in Auto Body Technology 0.5 to 10 units
For course description, see “Experimental Courses.”

AB 381 Industrial Mathematics 3 units
Advisory: Eligibility for MATH 511
Designed as the basic mathematics class for the industrial and engineering technology student wishing to gain proficiency in the applications of mathematics to practical situations, including percentage, area, volume, speed ratios of equipment, horsepower and the essentials of plane and spherical trigonometry. This course is not open to students who are enrolled in or have received credit for AT 381, ET 381, MT 381 or WLDT 381. (A) (GR)

AB 389 Independent Projects in Auto Body Technology 1 to 3 units
Course may be repeated three times.
For course description see "Independent Projects."

AUTOMOTIVE TECHNOLOGY

AT 100 Automotive Fundamentals 4 units
Acceptable for credit: CSU
Designed to teach the student complete car care, emphasizing the operating principles and service operations on all types of automobiles and light trucks. (F,S) (GR/P/NP)
AT 133 Automotive Engine Rebuilding 5 units
Acceptable for credit: CSU
Prerequisite: AT 100
Designed to make the student proficient in all phases of automotive and industrial engine rebuilding, including crankshaft grinding, boring, honing, line boring, block and head resurfacing, crack repair, head reconditioning, precision measuring, balancing and engine assembly. (F) (GR/P/NP)

AT 303 Automotive Electricity 4 units
Provides basic knowledge of the development and use of electricity in the modern automobile and the application of electricity in the service station. (F,S) (GR/P/NP)

AT 306 Auto Air Conditioning 1 unit
Prerequisite: AT 100
Covers the operating principles, troubleshooting, diagnosis and repair of automotive air conditioning systems as used on today's vehicles. (F) (GR/P/NP)

AT 313 Automotive Brakes 4 units
Prerequisite: AT 100
A comprehensive examination of automotive and light truck brakes. Emphasis on repair and troubleshooting of domestic and import systems, drum and disc mechanical systems, power brake systems, anti-skid systems and computerized brake systems. (F) (GR/P/NP)

AT 314 Suspension and Alignment 4 units
Prerequisite: AT 100
Designed to familiarize the student with the theory of suspension design and the repair and alignment of automotive suspensions, including long- and short-arm suspension, McPherson Struts, Solid Axle and Twin I Beam types. (GR/P/NP)

AT 323 Power Trains 5 units
An introduction and comprehensive examination of automotive drive lines and differentials; manual transmissions; manual transaxles; automatic transmission fundamentals; flywheel and clutch and 4-wheel drive. Emphasis is placed on principles of operation, troubleshooting and intensive repair. (F,S) (GR/P/NP)

AT 324 Automatic Transmissions 5 units
Prerequisite: AT 100
Designed to make the student proficient in four popular automotive transmissions: G.M., Ford, Chrysler and foreign. Emphasis is on competent repair and troubleshooting of the automatic transmission. (S) (GR/P/NP)

AT 330 Print Reading and Interpretation 3 units
Prepares students to read engineering drawings and specifications and to enable them to understand the intent of the engineer by interpreting the relationship of two-dimensional drawings with respect to actual objects or projects. This course is not open to students who are enrolled in or have received credit for AB 330, ET 330 or MT 330. (A) (GR/P/NP)

AT 334 Automotive Machining 5 units
Prerequisite: AT 100
An intensified course in automotive machining, it will emphasize student proficiency in machine operation.

Content focuses on technological knowledge and methods used in today's automotive shops. (S) (GR/P/NP)

AT 341 Automotive Carburetion/Injection 5 units
Prerequisite: AT 100 and AT 303
Designed to make the student proficient in automotive fuel systems. Emphasis is on carburetion, fuel injection, turbo-charging and super charging. Diagnosis and intensive component repair is emphasized. (F,S2) (GR/P/NP)

AT 343 Auto Tune-Up & Engine Analysis 5 units
Prerequisite: AT 303 and AT 341
Designed to give the student a basic knowledge of the function and operation of test instruments as well as a working ability to diagnose customer problems in the automotive tune-up area, including carburetion, computer command control, battery, cranking circuits, charging circuits, electrical accessory circuits and dynamometer testing. (S,F2) (GR/P/NP)

AT 344 Emission Control/Bar 90 4 units
Prerequisite: AT 341 and AT 343
A study of auto emission control systems and their relationship to auto tune-up. Emphasis is on service to certify. The student is prepared for the State Emission Control License test. (A) (GR/P/NP)

AT 379 Experimental Courses in Automotive Technology 0.5 to 10 units
For course description, see “Experimental Courses.”

AT 381 Industrial Mathematics 3 units
Advisory: Eligibility for MATH 511
Designed as the basic mathematics class for the industrial and engineering technology student wishing to gain proficiency in the applications of mathematics to practical situations, including percentage, area, volume, speed ratios of equipment, horsepower and the essentials of plane trigonometry. This course is not open to students who are enrolled in or have received credit for AB 381, ET 381, MT 381 or WLDT 381. (A) (GR)

AT 389 Independent Projects in Automotive Technology 1 to 3 units
Course may be repeated three times.
For course description, see "Independent Projects."

AT 399 Special Topics in Automotive Technology 0.5 to 3 units
Acceptable for credit: CSU, UC
For course description, see “Special Topics.”

BIOLOGY

BIOL 100 Introductory Biology 4 units
Acceptable for credit: CSU, UC-CL
Advisory: Eligibility for ENGL 101 or completion of ENGL 514
An introduction to the concepts of biology with emphasis on their relevance to current problems of the world. Designed for majors in fields other than biological science, the course stresses genetics, cell biology, evolution, reproduction, ecology, behavior and diversity of plants and animals. (GR/P/NP)
BIOL 120 Humans & the Environment  3 units  
Acceptable for credit:  CSU, UC  
Explores contemporary problems generated by human scientific, social, and ethical interaction with the environment. Lectures examine the scope of present environmental problems, possible future impacts and potential solutions. Topics include human impact on the environment, ecological controversies, ecosystem operation, water and energy perspectives and values of wilderness preservation. Emphasis is on both local and global dimensions of the above topics. This course is not open to students who are enrolled in or have received credit for ENVS 101. (GR/P/NP)

BIOL 124 Human Anatomy  4 units  
Acceptable for credit:  CSU, UC  
Advisory: BIOL 100; CHEM 110 or CHEM 120.  
An examination of the functional anatomy of the human organism. Lectures and laboratories investigate the microscopic and macroscopic structures of the major organ systems. (F,S,U) (GR/P/NP)

BIOL 125 Human Physiology  4 units  
Acceptable for credit:  CSU, UC  
Prerequisite: BIOL 124. Advisory: CHEM 120  
A study of the functions and interactions of human cells, tissues, organs and organ systems. Metabolic processes, negative feedback mechanisms and homeostatic regulation are investigated in both lecture and laboratory sections. Emphasis is on the interaction of physiological processes responsible for the maintenance of normal body functions. (F,S) (GR/P/NP)

BIOL 128 Microbiology  5 units  
Acceptable for credit:  CSU, UC  
Prerequisite: BIOL 100 or BIOL 124 or BIOL 125 or BIOL 150 and CHEM 110 or CHEM 120  
An introduction to microorganisms, including morphology, physiology and growth and interaction of bacteria and other microorganisms. Laboratory emphasizes microbiological techniques. (F,S) (GR/P/NP)

BIOL 132 Marine Biology  4 units  
Acceptable for credit:  CSU, UC  
Advisory: Eligibility for ENGL 101 or completion of ENGL 301 or 514  
An introductory study of the biotic and physical factors of the marine shore community, with primary emphasis on the flora and fauna of the Central California coast. Several field trips to the marine shore are required. (F,S) (GR/P/NP)

BIOL 135 Natural History of California  4 units  
Acceptable for credit:  CSU, UC  
An exploration of the natural history of California including climatology, geology, ecology of marine and terrestrial habitats and the history of human involvement in California. Basic information from lectures and readings will be examined in detail in laboratories and field trips. (S) (GR/P/NP)

BIOL 145 Desert Ecology  2 units  
Acceptable for credit:  CSU, UC  
Prerequisite: BIOL 100 or BIOL 124 or BIOL 128 or BIOL 132 or BIOL 150 or BIOL 154 or BIOL 155. 
A short, intensive course in the study of the Mojave Desert. Eight weekly two-hour lectures serve as preparation for the field trip. Lecture topics include the study of desert formation, geology, climate, plant and animal adaptations and current environmental impacts. Examples of lecture topics are observed in 32 hours of planned field activity, including a visit to the Soda Springs field station and Devil's Playground sand dune system. (S2) (GR/P/NP)

BIOL 150 Cellular Biology  5 units  
Acceptable for credit:  CSU, UC  
Prerequisite: CHEM 150  
A study of the nature of life, emphasizing its molecular and cellular aspects, particularly cellular reactions as governs organismic metabolism, biological and chemical evolution and Mendelian genetics. (F,S) (GR)

BIOL 154 General Botany  5 units  
Acceptable for credit:  CSU, UC  
Prerequisite: MATH 331 and BIOL 150 or BIOL 100  
A survey of the plant kingdom, including structure and functions, heredity, relation to environment, economic uses, identification, the role of plants in the ecosystem and important problems common to all plants. (F) (GR/P/NP)

BIOL 155 General Zoology  5 units  
Acceptable for credit:  CSU, UC  
Prerequisite: MATH 331 and BIOL 150 or BIOL 100  
An exploration of the organismic and populational aspects of the animal kingdom. Lecture topics emphasize animal ecology, animal behavior, vertebrate evolutionary trends and animal form and function. Laboratories investigate the comparative anatomy of invertebrate and vertebrate taxa. Satisfies the university requirement for a second semester of biology. (S) (GR/P/NP)

BIOL 179, 379 Experimental Courses in Biology  0.5 to 10 units  
179 - Acceptable for credit:  CSU, UC  
For course description, see "Experimental Courses."

BIOL 189, 389 Independent Projects in Biology  1 to 3 units  
Course may be repeated three times.  
189 - Acceptable for credit:  CSU, UC-DAT  
For course description, see "Independent Projects."

BIOL 199, 399 Special Topics in Biology  0.5 to 3 units  
Acceptable for credit:  CSU, UC-DAT  
For course description, see "Special Topics."

BUSINESS

BUS 101 Introduction to Business  3 units  
Acceptable for credit:  CSU, UC  
The nature of business, including principles, problems, practices, procedures and organization. (F,S,U) (GR/P/NP)

BUS 102 Marketing  3 units  
Acceptable for credit:  CSU  
The study of marketing channels and institutions; market structure, organizations and behavior; retail, wholesale and industrial marketing; and governmental regulations. (F,S,U) (GR)
BUS 103 Advertising 3 units
Accepted for credit: CSU
A survey of advertising media; the psychology of advertising; motivational research; formulation of advertising budgets; mechanics of layout and copy; and evaluation and selection of media. (S) (GR/P/NP)

BUS 104 Business Organization & Management 3 units
Accepted for credit: CSU
Advisory: BUS 302
A study of the structure of business firms and the principles of organization that determine departmentation and lines of authority and responsibility. Covers management principles and function, including planning, organization and control within a business firm. (F,S) (GR/P/NP)

BUS 106 Small Business Management 3 units
Accepted for credit: CSU
Advisory: Eligibility for ENGL 513
Intended primarily for students who plan to participate in an independently-owned business. Includes study of single proprietorships, partnerships and corporations at all levels of the American economic system. Not designed as a substitute for BUS 101 or BUS 103, which serve as introductions to further study in business administration. (F,S) (GR/P/NP)

BUS 107 Human Relations in Business 3 units
Accepted for credit: CSU
Advisory: Eligibility for ENGL 513
A study of human relations in business including multicultural and gender relationships in the workplace. (F,S,U) (GR)

BUS 110 Business Law: Contracts & Sales 3 units
Accepted for credit: CSU, UC
A study of the legal environment of business and a survey of the law of contracts, agency, bailments and sales. (F,S) (GR/P/NP)

BUS 111 Internet Marketing 3 units
Accepted for credit: CSU
A study of methods to create, distribute, promote and price goods and services to a target market over the Internet. (A) (GR/P/NP)

BUS 121 Business Economics 3 units
Accepted for credit: CSU
May be taken prior to or concurrently with ECON 101 or ECON 102.
An introduction to basic economic analysis and institutions. Macroeconomic analysis of income, employment, price level and international trade. Microeconomic analysis of demand, production, competitive and non-competitive product markets and factor markets. Emphasis is placed on the applications of economic theory in the business environment. This course is not open to students who are enrolled in or have received credit for ECON 121. (F) (GR)

BUS 130 Consumer and Family Finance 3 units
Accepted for credit: CSU
Designed to assist individuals and/or those working with individuals to analyze and direct their financial affairs. Elements and concepts of financial planning and decision making in the areas of budgeting, taxes, borrowing, money management, consuming, insurance, investments, retirement and estate planning will be analyzed with an emphasis on application to changing family needs. This course is not open to students who are enrolled in or have received credit for ECON 130 or FCS 130. (F,S) (GR/P/NP)

BUS 140 Survey of International Business 3 units
Accepted for credit: CSU
An introduction to institutions and business practices in the international environment, emphasizing the major motivations compelling private firms to pursue international business. (F) (GR/P/NP)

BUS 141 Global Economics 3 units
Accepted for credit: CSU, UC
Advisory: Completion or concurrent enrollment in ECON 101 or ECON 102 or ECON 121 or BUS 121
An introduction to international economic issues. Explores why countries trade and addresses the consequences of trade restrictions. Alternative exchange rate systems, factors that cause exchange-rate fluctuations and the determinants of a country’s balance of trade are covered. Other topics include the politics of trade policy, the impact of trade on the job market, the role of international institutions in the global economy, financial crises, global environmental issues and international debt problems. This course is not open to students who are enrolled in or have received credit for ECON 141 or GBST 141. (F,S,U) (GR/P/NP)

BUS 160 Business Communications 3 units
Accepted for credit: CSU
A study of communications used in the business world with emphasis on the content and practice of creating and writing various types of letters, memos, reports, Internet email and multimedia presentations. Spelling, correct word usage, sentence structure, punctuation, appearance of copy and organization of ideas are stressed. (F,S) (GR)

BUS 179, 379 Experimental Courses in Business 0.5 to 10 units
179 - Accepted for credit: CSU, UC
For course description, see “Experimental Courses.”

BUS 189 Independent Projects in Business 1 to 3 units
Course may be repeated three times.
Accepted for credit: CSU, UC-DAT
For course description, see "Independent Projects." Selected projects may be Tech Prep articulated.

BUS 199, 399 Special Topics in Business 0.5 to 3 units
199 - Accepted for credit: CSU, UC
For course description, see “Special Topics.”

BUS 302 Essentials of Management 3 units
A review of essential management skills including the role of the supervisor, supervisory challenges and related human resources responsibilities. This course is not open to students who are enrolled in or have received credit for one or more of the "Essentials of Management" modules or BUS 359 Essentials of Management. (F,S) (GR/P/NP)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 303 Sales and Marketing</td>
<td>3 units</td>
<td>An overview of sales and marketing strategies including pricing, promotion and distribution of goods, services and concepts used to create relationships that satisfy individual and organizational objectives. This course is not open to students who are enrolled in or have received credit for one or more of the &quot;Sales and Marketing: The Series&quot; modules or BUS 359 Sales and Marketing. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 355 Issues in Internet Law</td>
<td>0.5 unit</td>
<td>Review of issues essential to understanding emerging Internet laws. Not open to students who have taken “Business Law: Series”. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 356 Managing Organizations</td>
<td>0.5 unit</td>
<td>A look inside an organization to explore how organizational variables influence human behavior in the workplace including culture, power, job design and decision making. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 357 Management: Listening</td>
<td>0.5 unit</td>
<td>This class focuses on active listening techniques which can increase understanding of instructions, reduce errors/omissions and build empathetic relationships. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 358 Managing Individuals</td>
<td>0.5 unit</td>
<td>Bring the best ‘you’ to the job. Explore how your personality and attitudes, perceptions and attributions, problem solving styles, stress levels and more affect job behavior and performance. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 360 Introduction to Supervision</td>
<td>0.5 unit</td>
<td>This class is designed to help managers develop supervisory skills needed to successfully manage a business enterprise. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 361 Your Leadership Style</td>
<td>0.5 unit</td>
<td>Students will identify their personal leadership style by reviewing a variety of conflict, communication and personality traits. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 362 Management: People Skills</td>
<td>0.5 unit</td>
<td>This class will examine personal and professional habits that enhance a leader’s ability to create and sustain a healthy and productive organization. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 363 Management: Conflict</td>
<td>0.5 unit</td>
<td>This class is designed to help organizational leaders learn how to resolve conflict and manage resistance in the workplace. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 364 Winning Business Plans</td>
<td>0.5 unit</td>
<td>This class prepares you to create a business plan. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 365 Managing Teams</td>
<td>0.5 unit</td>
<td>An introduction to effective strategies for team building in the workplace. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 366 Promoting a Small Business</td>
<td>0.5 unit</td>
<td>A course designed to help small business owners promote their business using effective advertising, sales promotion, public relations and budgeting techniques. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 367 Managing Change</td>
<td>0.5 unit</td>
<td>This course examines how organizations can adapt to their ever-changing environment and work with and through employees to implement change. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 368 Online Auctions</td>
<td>0.5 unit</td>
<td>A study of the business methods and advantages of selling and buying using online auctions. Online secured financial transactions will also be covered. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 369 Employment Law</td>
<td>0.5 unit</td>
<td>An overview of employment laws and their impact on organizational policies, procedures and practices. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 370 Ethics and Integrity</td>
<td>0.5 unit</td>
<td>An examination how organizations can shape ethical conduct. Both the managers’ and individuals’ role in promoting ethical behavior is examined. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 371 Sexual Harassment Law</td>
<td>0.5 unit</td>
<td>An examination of laws, techniques, tools and skills needed for prevention of sexual harassment in the workplace. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 372 Workplace Diversity</td>
<td>0.5 unit</td>
<td>An examination of the various components of diversity in the workplace, the impacts and benefits of diversity and the means to avoid diversity-related workplace conflicts. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 373 Forming a Small Business</td>
<td>0.5 unit</td>
<td>An examination of laws forms and procedures required to form a small business. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 374 Business Incorporation</td>
<td>0.5 unit</td>
<td>An examination of laws, forms and procedures required to incorporate a business. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 375 Patents &amp; Copyrights</td>
<td>0.5 unit</td>
<td>An examination of laws, forms and procedures required to establish and protect patents and copyrights. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 376 Strategic Planning</td>
<td>0.5 unit</td>
<td>An examination of techniques, tools and skills needed for developing and leading the strategic planning process. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 377 Managing Service Quality</td>
<td>0.5 unit</td>
<td>An introduction to strategies to build and maintain outstanding customer service. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 378 Effective Sales Methods</td>
<td>0.5 unit</td>
<td>Develops a working appreciation of the selling process, successful persuasive marketing communication methods and strategies, including sales presentations and closes. (F,S,U) (P/NP)</td>
</tr>
<tr>
<td>BUS 380 Marketing Strategies</td>
<td>0.5 unit</td>
<td>Learn how to develop “winning” marketing plans, including strategies for product, brand, channel, communications and pricing. (F,S,U) (P/NP)</td>
</tr>
</tbody>
</table>
BUS 381 Entering Global Markets 0.5 unit
Learn the essentials required to enter global markets including details on sales channels, financing, cultural, legal and economic factors. (F,S,U) (P/NP)

BUS 382 Advertising & PR Strategies 0.5 unit
Introduces integrated marketing communications strategies for developing productive advertising and maintaining positive public relations. (F,S,U) (P/NP)

BUS 386 Business Résumé Writing 1 unit
This course will help students learn how to create and maintain a professional résumé and cover letter. Students will apply résumé writing techniques to develop an effective personal résumé. This course will also assist job seekers in preparing to interview with prospective employers. (S,U) (P/NP)

BUS 387 Executive Leadership: Series 3 units
Review of skills/knowledge essential to business/non-profit executives. Not open to students who have taken any of the following BUS 359 courses: Executive Leadership: Your Leadership Style; Strategic Planning; Managing Organizations; Managing Change; or Management: People Skills. (F,S,U) (P/NP)

BUS 389 Customer Service: Series 3 units
Review of skills/knowledge essential to those working in customer service. Not open to students who have taken any of the following BUS 359 courses: Managing Service Quality; Management: Verbal; Management: Listening; Management: Conflict; Management: People Skills; or Ethics and Integrity. (F,S,U) (P/NP)

BUS 390 Business Law: The Series 3 units
Review of skills/knowledge essential to those interested in business law. Not open to students who have taken one or more of the “Business Law: The Series” modules. (F,S,U) (P/NP)

BUS 391 Human Resource Mgt: Series 3 units
Review of skills/knowledge essential to Human Resources Managers. Not open to students who have taken any of the following BUS 359 courses: Employment Law, Sexual Harassment Law/Prevention; Workplace Diversity; Performance Measurement; Ethics and Integrity; or Management Conflict. (F,S,U) (P/NP)

BUS 392 Performance Evaluation 0.5 unit
Techniques, tools, and skills needed for effective employee performance evaluation are presented. (F,S,U) (P/NP)

BUS 393 Business Report Writing 0.5 unit
Effective written business communications, including proper report writing techniques, employee evaluations and memos. Includes review of punctuation, grammar, style and clarity. (F,S,U) (P/NP)

BUS 394 Management: Verbal 0.5 unit
This class is designed to help leaders improve their verbal communication skills. Students will learn how to improve the design and transmittal of their messages. (F,S,U) (P/NP)

BUS 395 Business Incorporation 0.5 unit
Laws, forms and procedures required to incorporate a business. (F,S,U) (P/NP)

BUS 396 Performance Measurement 0.5 unit
Learn to design and utilize recurring performance measurements tied to budgetary program cost centers. (F,S,U) (P/NP)

BUS 397 Executive Leadership 0.5 unit
The real worth of an organization’s values come from what is practiced rather than merely professional. This highly interactive workshop prepares organizational leaders to turn their good intentions into action and to build staff commitment and team building. (F,S,U) (P/NP)

BUS 398 Efficient Meetings 0.5 unit
A review of techniques that lead to efficient and effective meetings. Ways to foster participation, decision making and action are highlighted. (F,S,U) (P/NP)

CHEM 110 Chemistry and Society 4 units
Acceptable for credit: CSU
An introduction to the fundamentals of chemistry, including the composition of matter, energy and chemical reactions and their application to everyday living. Applications of chemistry in the areas of medicine, nuclear power, plastics, household products and society’s effect on the environment will be emphasized. Intended for non-science majors. Not open to students who are enrolled in or have completed CHEM 100, CHEM 105 or CHEM 120. (F,S) (GR/P/NP)

CHEM 120 Introductory Chemistry 4 units
Acceptable for credit: CSU, UC-CL
Prerequisite: MATH 311 or MATH 313/314
An introductory course emphasizing the principles and practices of chemistry for the student having no prior background in chemistry. Not open to students currently enrolled in or who have received credit for CHEM 100 (GR/P/NP) (F,S,U)

CHEM 140 Introductory Organic Chemistry 4 units
Acceptable for credit: CSU, UC
Prerequisite: CHEM 100 or CHEM 120
An introductory study of the compounds of carbon, including both aliphatics and aromatics. Laboratory work consists of synthesis and reactions of representative compounds. Consideration is given to the simple aspects of organic analysis and to a thorough introduction to reaction mechanisms. The course is generally required of pre-medical, pre-dental, and biology majors. (S) (GR/P/NP)

CHEM 150 General Chemistry 1 5 units
Acceptable for credit: CSU, UC
Prerequisite: CHEM 100 or CHEM 120 (or equivalent) and MATH 311 (or equivalent)
A study of the principles and theories of chemistry. Topics include the kinetic-molecular theory of matter; atomic structure and the periodic table; chemical bonding; gases; and stoichiometry. Experiments in standard qualitative and quantitative analysis emphasizing the collection and interpretation of data are covered in the lab. (F,S) (GR/P/NP)
CHEM 151 General Chemistry 2  5 units
Acceptable for credit:  CSU, UC
Prerequisite:  CHEM 150
A continuation of CHEM 150, emphasizing the development of the principles and theories of chemical equilibria, chemical kinetics, thermodynamics and electro-chemistry, including an introduction to modern means of instrumental analysis. The laboratory consists of experiments in standard qualitative and quantitative analysis.  (F,S) (GR)

CHEM 179 Experimental Courses in Chemistry  0.5 to 10 units
179 - Acceptable for credit:  CSU, UC
For course description, see "Experimental Courses."

CHEM 189 Independent Projects in Chemistry  1 to 3 units
Course may be repeated three times.
Acceptable for credit:  CSU, UC-DAT
For course description, see "Independent Projects."

COMPUTER BUSINESS INFORMATION SYSTEMS

CBIS 101 Computer Concepts & Applications  3 units
Acceptable for credit:  CSU, UC
Advisory:  CBIS 301 or CBIS 373
The focus of this course is to provide the computer skills that all college students need. Provides hands-on experience using software applications such as Internet browsers, word processing, spreadsheets, databases and presentation software.  (F,S,U) (GR/P/NP)

CBIS 108 Networking and Administration  3 units
Acceptable for credit:  CSU
Advisory:  CBIS 301
Assists students preparing to work as network administrators or server managers, emphasizing installation and maintenance of a Windows NT Server on a LAN. Also provides preparation for the Windows NT certification exam. (F,S) (GR/P/NP)

CBIS 112 Intro to Visual Basic Program  3 units
Acceptable for credit:  CSU, UC-CL
Advisory:  CBIS 301 or CBIS 101 or CS 102
An introduction to Visual Basic, an object-oriented/event and procedure-driven programming language for the Windows environment. Provides skills necessary for the creation of professional looking applications, development of macros in Excel and the use of procedures and modules in Access.  (F,S) (GR/P/NP)

CBIS 141 Microsoft Excel  3 units
Acceptable for credit:  CSU
Advisory:  CBIS 101 or CBIS 371 or CS 102
Manage and analyze information using spreadsheets for more informed decisions. Some skills covered are applying formatting, creating calculations, using functions, creating Pivot Tables and Pivot Charts, developing macros, sharing data, and writing VBA code.  (F,S) (GR/P/NP)

CBIS 142 Microsoft Access  3 units
Acceptable for credit:  CSU
Advisory:  CBIS 101 or CBIS 372 or CS 102
Learn techniques to solve business problems and develop business decision-making processes using a database program. Some skills covered are developing and maintaining tables, relationships, queries, forms, reports, macros and code modules. Learn Microsoft Access 2007.  (F,S) (GR/P/NP)

CBIS 189, 389 Independent Projects in Computer Business Information Systems  1 to 3 units
Course may be repeated three times.
Acceptable for credit:  CSU, UC-DAT
For course description, see "Independent Projects."

CBIS 301 Computer Fundamentals  3 units
Development of computer competency using the Windows operating system and a number of common computer peripherals. Provides students with the essential computer skills to succeed in college-level computer courses.  (F,S) (GR/P/NP)

CBIS 318 Programming the Web  3 units
Prerequisite:  CBIS 327
An introduction to programming and scripting for the development of Web-based business solutions. Emphasizes program concepts to develop Web pages that include client-side and server-side scripting. Students taking this course should have a basic knowledge of programming.  (F,S) (GR/P/NP)

CBIS 321 Internet Business Applications  3 units
Advisory:  CBIS 301 or equivalent skills.
Development of fundamental competency in Internet business applications. Explores a comprehensive range of skills from the basic uses of Internet browsers, search engines and email to file transfer protocol, file compression and bookmark management. Includes the use of editing software to create interactive business websites, searching for and registering domain names and analyzing business websites.  (F,S) (GR/P/NP)

CBIS 327 Building Business Web Sites  3 units
Advisory:  CBIS 373
An introductory to advanced course on business website development that consists of website design, accessibility, usability and troubleshooting. Presents skills necessary to create professional-looking business Web pages using images, tables, tags, cascading style sheets, forms, libraries, behaviors and timelines. Includes uploading and maintaining pages on an Internet server site. Learn Macromedia Dreamweaver.  (F,S) (GR/P/NP)

CBIS 330 Database Management and Concepts  3 units
Advisory:  CBIS 101
This course provides a comprehensive foundation in practical database design and implementation covering a range of database types in a variety of formats. Data modeling, implementation with SQL (Structured Query Language), database performance, database security and connectivity with the Web are all covered. Students taking this course should be competent in the use of office applications and the operating system.  (F,S) (GR/P/NP)
CBIS 334 Database Security and Auditing 3 units
Advisory: CBIS 370 or CBIS 142.
A course on security techniques used when developing and maintaining database applications. Design secure applications from the beginning and defend from attacks. Learn database security for business applications. Students should have previous database development experience. (F,S) (GR/P/NP)

CBIS 336 Web DB Programming-PHP/ASP 3 units
Prerequisite: CBIS 327 and CBIS 330
Advisory: CS 102
A course on developing dynamic, database-driven websites, and implementing Web-based business solutions. Manage databases on the Web using server-side scripting with PHP and ASP. Students taking this course should understand Web page and database development. (F,S) (GR/P/NP)

CBIS 337 Presentation Design-PowerPoint 3 units
Advisory: CBIS 373 or knowledge of Windows.
An introduction to computer-based business presentations and their development using PowerPoint. This course is not open to students who are enrolled in or have received credit for CBOT 337. (F,S) (GR/P/NP)

CBIS 343 Applied Project Management 1 1.5 units
Advisory: Knowledge of current Windows operating system
An introduction to managing comprehensive projects using a commercial project management software package. Provides skills necessary for planning and creating professional-looking schedules, communicating project information and using the critical path. (F,S) (GR/P/NP)

CBIS 371 Introduction to Excel 1 unit
Advisory: CBIS 373
Provides the student with an introduction to the use of Microsoft Excel. This course covers fundamentals of spreadsheet design; data entry, use of formulas and operators, charting information, and printing worksheets and graphs. (F,S,U) (P/NP)

CBIS 372 Introduction to Access 1 unit
Advisory: CBIS 373
Provides the student with an introduction to the use of database program. This is a hands-on, self-paced course with flexible hours. Learn Microsoft Access 2010. (F,S,U) (P/NP)

CBIS 373 Intro to Windows 1 unit
Provides students with an introduction to the use of Windows, the most widely used operating system for PC computers. Course covers fundamentals of Windows; managing the desktop; managing files and folders; personalizing and customizing your computer; and using Windows applications. (F,S,U) (P/NP)

CBIS 381 Introduction to Mac OS 1 unit
Provides the students with an introduction to the current Macintosh operating system. This is a hands-on, self-paced course with flexible hours. (F,S,U) (GR/P/NP)

CBIS 382 Office Apps for the Mac 2 units
Advisory: CBIS 381
An introduction to Microsoft Office applications using a Mac computer. This is a hands-on, self-paced course with flexible hours. (F,S,U) (GR/P/NP)

CBIS 399 Special Topics in Computer Business Information Systems 0.5 to 3 units
Acceptable for credit: CSU, UC
For course description, see "Special Topics."

### COMPUTER BUSINESS OFFICE TECHNOLOGY

CBOT 100 Keyboarding 1 unit
Acceptable for credit: CSU
This course is Tech Prep articulated.
Advisory: Ability to keyboard 25 words per minute
An introduction to word processing designed to develop skills in formatting and editing documents using microcomputers. Includes setting tabs, creating headers and footers, inserting tables, creating newsletters and brochures and printing envelopes and labels. (F,S,U) (GR/P/NP)

CBOT 131 Intro to Word Processing 3 units
Acceptable for credit: CSU
This course is Tech Prep articulated.
Advisory: CBOT 131
An introduction to word processing designed to develop industry proficiency in the skills required for processing information in today’s electronic office. Includes inserting graphics and WordArt to create flyers and newsletters; creating online forms; inserting a table of contents and index for reports and books; creating hyperlinks, bookmarks, and cross-references; completing a mail merge; and recording macros and saving documents using different file formats. (F,S) (GR/P/NP)

CBOT 132 Advanced Word Processing 3 units
Acceptable for credit: CSU
This course is Tech Prep articulated.
Advisory: CBOT 131
An advanced word processing experience designed to develop industry proficiency in the skills required for processing information in today’s electronic office. Includes inserting graphics and WordArt to create flyers and newsletters; creating online forms; inserting a table of contents and index for reports and books; creating hyperlinks, bookmarks, and cross-references; completing a mail merge; and recording macros and saving documents using different file formats. (F,S) (GR/P/NP)

CBOT 189, 389 Independent Projects in Computer Business Office Technology 1 to 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

CBOT 302 Records Management 2 units
A comprehensive course in the principles and practices of records management. The course covers the rules of indexing and alphabetizing and various records management systems including geographic, numeric, subject, microfilming and magnetic-disc and tape storage, plus the organization and operation of records management programs. (F,S) (GR/P/NP)
CBOT 305 Legal Office Procedures 3 units
Prerequisite: Ability to keyboard 40 words per minute.
Focuses on law office secretarial procedures and terminology, covering the field of general civil procedure, unlawful detainer (landlord/tenant), adoption law, family law (dissolution), probate law, corporate law and miscellaneous non-court documents such as deeds and notes. (F) (GR/P/NP)

CBOT 312 Keyboarding Speed and Development 1 unit
Course may be repeated two times.
This course is Tech Prep articulated.
Advisory: CBOT 100
Designed to follow the formal computerized keyboarding courses in order to bring up students’ speed and accuracy by the touch method before they enter the job market. Enrollment permitted until the last six weeks of each semester. (F,S,U) (GR/P/NP)

CBOT 333 Business Desktop Publishing 3 units
Basics of desktop and Internet publishing for business documents. Topics include page layouts using columns and grids, adding multimedia elements, incorporating color and publishing techniques. (S) (GR/P/NP)

CBOT 334 Administrative Office Procedures 3 units
Advisory: CBOT 131
This course focuses on both the computerized and non-computerized administrative tasks performed by secretaries and administrative assistants in today's electronic office. Topics include effective communication in the workplace, records management, customer service and teamwork. (F,S) (GR/P/NP)

CBOT 336 Introduction to Internet Explorer 1 unit
An introductory course in the use of browser software, explaining how to use tabbed browsing, advanced Web searches, search engines, using email and subscribing to newsgroups and RSS feeds. (F,S) (P/NP)

CBOT 337 Presentation Design-PowerPoint 3 units
Advisory: CBIS 373 or knowledge of Windows
A comprehensive course in computer-based business presentations and their development using PowerPoint. This course is not open to students who are enrolled in or have received credit for CBIS 337. (F,S) (GR/P/NP)

CBOT 340 Intro to Voice Recognition 1 unit
Advisory: CBIS 373 or knowledge of Windows
An introduction to the basic functions of voice recognition software. This is a hands-on, self-paced course with flexible hours. (F,S) (P/NP)

CBOT 360 MS Word – Basics 1 unit
An introduction to word processing using a Windows word processing package. This is a hands-on, self-paced course with flexible hours. (F,S,U) (P/NP)

CBOT 361 Introduction to MS PowerPoint 1 unit
Provides the student with an introduction to the use of a presentation design program using a microcomputer. This is a hands-on, self-paced course with flexible hours. (F,S,U) (P/NP)

CBOT 362 Intro to MS Publisher 1 unit
Advisory: Basic knowledge of Microsoft Windows.
An introductory course in the basics of desktop publishing. Learn to create newsletters, brochures, flyers, logos and business cards using desktop publishing software. This is a hands-on, self-paced, open-entry, open-exit course with flexible hours. (P/NP) (F,S,U)

CBOT 379 Experimental Courses in Computer Business Office Technology 0.5 to 3 units
For course description, see “Experimental Courses.”

CBOT 399 Special Topics in Computer Business Office Technology 0.5 to 3 units
For course description, see “Special Topics.”

CEL 103 Cabling & Fiber Optics 2 units
Introductory hands-on course focusing on industry and aerospace standard single and multi-conductor wiring, termination, soldering and fiber optics. The course will introduce wiring and fiber characteristics and fabrication techniques using a variety of cable and termination types. Hands-on experimentation is designed to reinforce the studied theory and applications. Study units also contain lessons that concentrate on communication aspects, system design and most importantly, troubleshooting. (F) (GR/P/NP)

CEL 104 Introduction to Robotics & Mechatronics 3 units
Acceptable for credit: CSU
An introduction to robotic control applications. Basic electronics, including digital, analog and microcontroller devices, sensors and transducers and actuators will be emphasized for automation control. Topics include Basic, Assembly and C language programming for robotic control; interfacing of indicators, switches, sensors and transducers; controlling motion and motors; monitoring and measurement of rotation; measuring light, temperature and conductance; application of navigation and measurement techniques; remote control applications; mechanical systems; and the control of frequency and sound. This course is not open to students who are enrolled in or have received credit for EL 104 or ET 104. (F,S) (GR/P/NP)

CEL 128 Renewable Energy 3 units
Acceptable for credit: CSU
A study of the principles behind energy generation and conversion that can be applied to modern electrical, mechanical and chemical devises that use or produce power. Special emphasis will be given to the study of electricity as a renewable energy source. This course is not open to students who are enrolled in or have received credit for EL 128 or ET 128. (A) (GR/P/NP)

CEL 131 PLCs & Industrial Control Design 3 units
Acceptable for credit: CSU
Prerequisite: EL 125 or CS 141
A study of the purpose and operating features of a programmable logic controller (PLC). Topics include PLC terminology, architecture, input/output modules, memory, commands for internal relays, on/off timers, up/down
counters, use of subroutines, program control and math instructions. Relay schematics, ladder logic diagrams and programming of logic controllers are emphasized. Sensing devices and time-driven process sequences will be studied and integrated into control systems. This course is not open to students who are enrolled in or have received credit for EL 131 or ET 131. (A) (GR/P/NP)

**CEL 133 Mechatronic Systems 1**  3 units  
Acceptable for credit:  CSU  
Prerequisite: ET 104, CEL 104 or EL 104  
This is a hands-on mechatronics systems course that focuses on the electromechanical concepts (mechanics, electronics and programming) of automated systems. Emphasis is placed on how industrial grade sensors and transducers function and how they are interfaced into control systems. Study topics include transducers and sensors for light, heat, motion, pressure and position control; switching devices; input and output signal conditioning; continuous, closed-loop and proportional integral derivative process control; and safety. This course is not open to students who are enrolled in or have received credit for EL 133 or ET 133. (A) (GR/P/NP)

**CEL 139 Electrical Power, Motors, & Controls**  3 units  
Acceptable for credit:  CSU  
Prerequisite: EL 122 and EL 125 or CS 141  
A study of electronics, signal communication and power technology that support efficient manufacturing processes for various industries. Topics include motors, their drives and controls, power electronics, PLCs and communications networks used to monitor industrial processes. This course is not open to students who are enrolled in or have received credit for EL 139 or ET 139. (A) (GR/P/NP)

**CEL 162 Fluid Power and Control**  2 units  
Acceptable for credit:  CSU  
An introduction to the generation, control and basic applications of hydraulics and pneumatics force and motion systems. Topics include safety, properties of and forces in liquids, pumps, motors, valves, reservoirs, strainers, filters, accumulators, basic diagramming, system design and troubleshooting. This course is not open to students who are enrolled in or have received credit for EL 162 or ET 162. (A) (GR/P/NP)

**CS 112 Fundamentals of Programming 2**  4 units  
Design, implementation and testing of object-oriented software. Introduction to classes, objects, encapsulation, interfaces, inheritance, polymorphism, algorithms (sort, search, recursion), abstract data types (list, stacks, queues, trees), data structures, pointers, dynamic allocation, traversal using iterators, file I/O, and exceptions. Students will develop applications using class hierarchies and abstract data types. (F,S) (GR/P/NP)

**CS 141 Computer Fundamentals in Digital Design**  3 units  
Acceptable for credit:  CSU, UC  
Prerequisite: MATH 331  
An introduction to digital logic design emphasizing design concepts, CAD tool use, VHDL programming and design simulations. Topics include number systems and codes; Boolean algebra, functions and minimization, VHDL programming and simulation; combinational logic circuits, control and computation circuits, feedback circuits; sequential design and finite machines; HDL chip design microcontrollers and Assembly language programming. (F,S) (GR/P/NP)

**CS 142 Computer Fundamentals in Digital Design Laboratory**  2 units  
Acceptable for credit:  CSU, UC  
Prerequisite: Completion of or concurrent enrollment in CS 141  
Hands-on laboratory designed to parallel CS 141. Emphasis is on digital design and system integration. Special logic design and implementation software and circuit analysis software are used to develop logic designs, simulate performance and program devices. HC11 Microcontroller and Assembly programming are introduced. (F,S) (GR/P/NP)

**CS 161 Discrete Structures**  3 units  
Acceptable for credit:  CSU, UC  
Prerequisite: MATH 181 and either CS 121 or 111 or CS 175  
An introduction to the discrete structures of computing, including propositional and predicate logic, methods of proof, functions, computer arithmetic, algorithm complexity, recursion, graphs, trees, sets and relations, networks, induction and combinatorics. (S2) (GR)

**CS 175 Object-Oriented Programming**  3 units  
Acceptable for credit:  CSU, UC  
Prerequisite: MATH 311. Advisory: CS 111  
A study of object-oriented programming including objects, classes, member functions, encapsulation, inheritance and polymorphism. Control flow, function overloading, search and sort algorithms, recursion, template classes and functions, as well as dynamic data structures are covered. Uses the C++ language. (F) (GR)

**CS 179, 379 Experimental Courses in Computer Sciences**  0.5 to 10 units  
179 - Acceptable for credit:  CSU, UC-DAT  
For course description, see “Experimental Courses.”

**CS 181 Game Programming**  3 units  
Prerequisite: CS 111. Advisory: CS 112  
Elements of games, including theme, game play and presentation. Basic concepts of programming and how
programs control the display of graphics and animation in computer games. The use of sound and artificial intelligence in computer games. Demonstrations and experiments with game programming through the use of examples. (F,S) (GR)

**CS 189 Independent Projects in Computer Science**  
1 to 3 units  
Course may be repeated three times.  
Acceptable for credit: CSU, UC-DAT  
For course description, see "Independent Projects."

**CS 199, 399 Special Topics in Computer Science**  
0.5 to 3 units  
199 - Acceptable for credit: CSU, UC-DAT  
For course description, see "Special Topics."

### COOPERATIVE WORK EXPERIENCE

**CWE 149 Cooperative Work Experience:**  
Occupational  
1 to 8 units  
Course may be repeated four times.  
Acceptable for credit: CSU  
Limitation on Enrollment: To participate in Cooperative Work Experience: (1) students must be working at a job within their major; (2) students must be able to become involved in new or expanded responsibilities on the job; (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student; and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities.  
Students enrolled in CWE 149 may earn up to eight units of credit per semester not to exceed 16 units in total. Any units earned in any Cooperative Work Experience (CWE 302 or any discipline specific 149) will be included in the 16 unit maximum.  
CWE 149 is appropriate for supervised employment, extending classroom-based learning to an on-the-job learning environment related to the student's career and educational goals. In addition, these work experiences improve the student's basic work skills and professional competencies by creating career awareness, improving work habits and fostering positive workplace attitudes. (F,S,U) (GR/P/NP)

**CWE 302 Cooperative Work Experience:**  
General  
1 to 3 units  
Course may be repeated two times.  
Limitation on enrollment: To participate in Cooperative Work Experience: (1) students must be working; (2) students must be able to become involved in new or expanded responsibilities on the job; (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student; and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities.  
Students enrolled in CWE 302 may earn up to three units of credit per semester not to exceed 16 units in total. Any units earned in any other Cooperative Work Experience (CWE 149 or any discipline specific 149) will be included in the 16 unit maximum.  
CWE 302 is appropriate for supervised employment, extending classroom-based learning to an on-the-job learning environment not directly related to the student's career and/or educational goals. In addition, these work experiences improve the student's basic work skills and professional competencies by creating career awareness, improving work habits and fostering positive workplace attitudes. (F,S) (GR/P/NP)

### COSMETOLOGY

**COS 301 Introduction to Cosmetology**  
6 units  
Prerequisite: Levels of placement on the START test are required: READ 510 or higher, ENGL 512 or higher, MATH 531  
An overview of the field of cosmetology with extensive practice in introductory hair, skin and nail care techniques. The course covers the practices of beauty salon operation, good customer and public relations and analysis of the Cosmetology Act and State Board Rules and Regulations. (GR)

**COS 302 Advanced Cosmetology**  
6 units  
Prerequisite: COS 301 with grade C or higher  
Provides students with advanced laboratory and salon experience in the field of cosmetology and related sciences. Includes theories and practices in hair styling, permanent waving, chemical straightening, haircutting, hair coloring and bleaching, scalp and hair treatments, facials, eyebrow arching and hair removal, makeup, manicuring and pedicuring. Students are required by the State Board of Cosmetology to complete COS 301 and COS 302 A-C for a total of 1,600 hours in order to qualify to take the licensure examination and become eligible to practice as a cosmetologist. (GR)

**COS 310 Manicuring**  
6 units  
Prerequisite: Levels of placement on the START test are required: READ 510 or higher, ENGL 512 or higher, MATH 531  
Designed to prepare the student to take the state board examination required to obtain a license as a manicurist/pedicurist. Includes the study of anatomy, sanitation and sterilization and safety precautions as applied to manicuring and pedicuring operations. Students will develop knowledge and skills in water and oil manicuring, hand and arm massage, complete pedicure procedures, massage and nail analysis. (GR)

### CULINARY ARTS

**CA 118 Beverage Management**  
1 unit  
Acceptable for credit: CSU  
A study of managing bar and beverage service for profit. Types of beverages (including mixology), equipment, sanitary operations, staffing, promotions, purchasing, storage, inventory and pricing strategies are discussed. (F) (GR/P/NP)

**CA 119 Introduction to Hospitality Industry**  
2 units  
Acceptable for credit: CSU  
An overview of the hospitality industry with an emphasis on career perspectives and wages. Topics include the restaurant business, operations and industry organization; issues in food service management; and lodging operations, the hotel business and the role of service in all sectors. (F) (GR/P/NP)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 120</td>
<td>Principles of Foods 1</td>
<td>4</td>
<td>Provides knowledge and experience in food preparation, terminology, equipment and techniques to increase proficiency, coupled with investigation of the science principles involved. Emphasis is on ingredient functions and interactions; production and sensory evaluation standards; food safety and sanitation; nutrient values; and food aesthetics and presentation. Content includes recipe and menu development, stocks, sauces, meat, poultry, fish and shellfish. This course is not open to students who are enrolled in or have received credit for FCS 120.</td>
</tr>
<tr>
<td>CA 121</td>
<td>Basic Baking and Pastry</td>
<td>3</td>
<td>The study of equipment, skills and procedures used in commercial bakeries. Includes practical application in the production of a wide variety of quick yeast breads and cookies.</td>
</tr>
<tr>
<td>CA 122</td>
<td>Advanced Baking &amp; Pastry</td>
<td>3</td>
<td>Designed to increase the student's proficiency in baking and pastry techniques with a focus on artistry and practical skills. Explores classical and modern applications of pastries, meringues, tarts, syrups, creams, sauces, pies, fillings, fruit desserts and plating.</td>
</tr>
<tr>
<td>CA 123</td>
<td>Principles of Foods 2</td>
<td>2</td>
<td>Provides knowledge and experience in food preparation terminology, equipment and techniques. Emphasis is on scientific principles, ingredient functions and interactions, production and sensory evaluation standards, food safety and sanitation, nutrient values, food aesthetics and presentation of vegetables, starches and grains, salads and dressings, sandwiches, hors d'oeuvres, Grande Manger, breakfast foods, bakeshop and international cuisine. This course is not open to students who are enrolled in or have received credit for FCS 123.</td>
</tr>
<tr>
<td>CA 124</td>
<td>Sanitation, Safety &amp; Equipment</td>
<td>3</td>
<td>An overview of basic concepts of personal and institutional sanitation and safety as applied to food service with special emphasis on the role of the food supervisor/manager in maintaining sound practices. The course also covers the concepts of sanitation and safety as related to the selection, layout and use of equipment and examines current recommended practices including local, state and federal regulations.</td>
</tr>
<tr>
<td>CA 125</td>
<td>Supervision &amp; Training</td>
<td>3</td>
<td>A study of food service operations, procedures and problems encountered in the development of personnel programs and desirable labor management relationships. Topics include selection, placement, orientation, training, counseling, rating and promotion of employees.</td>
</tr>
<tr>
<td>CA 126</td>
<td>Food Production Cost, Control</td>
<td>3</td>
<td>A study of quantity food preparation with emphasis on food, beverage and labor cost control management in purchasing, receiving, storing, issuing and producing food products. Principles and procedures for the management of institutional, restaurant and catering food service settings are examined.</td>
</tr>
<tr>
<td>CA 129</td>
<td>Catering &amp; Events Management</td>
<td>3</td>
<td>Prepares students for self-employment or working within the hotel/restaurant industry. Includes the research, design, planning, coordination and evaluation of events. Major emphasis is on managing catered events including menu development, organization, cost accounting, service, rentals, scheduling, staffing, contracts, legal requirements, marketing and client relations.</td>
</tr>
<tr>
<td>CA 199, 399</td>
<td>Special Topics in Culinary Arts</td>
<td>0.5 to 3</td>
<td>For course description, see “Special Topics.”</td>
</tr>
<tr>
<td>DANC 101</td>
<td>Dance Appreciation</td>
<td>3</td>
<td>An overview of the development of dance as an art form from its historical roots to contemporary trends, emphasizing multicultural/gender issues.</td>
</tr>
<tr>
<td>DANC 110</td>
<td>Beginning Modern Dance</td>
<td>2</td>
<td>The study and execution of fundamental modern dance techniques, including movement skills and the basic rhythmic structure of dance. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. This is a lecture/lab course.</td>
</tr>
</tbody>
</table>
DANC 111 Intermediate Modern Dance  2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC.
Advisory: ENGL 514 and DANC 110
The study and execution of intermediate modern dance techniques. Students will study styles such as Martha Graham, Merce Cunningham and Jose Limon. The opportunity to create and perform their own movement combinations is part of the structure of the class. Attendance of AHC dance concert is required. This is a lecture/lab course.  (F,S)  (GR/P/NP)

DANC 115 Advanced Modern Dance  3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC.
Advisory: ENGL 514 and DANC 111
Limitation on enrollment: Audition
The study and execution of modern dance styles such as Martha Graham, Merce Cunningham and Jose Limon at an advanced level. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. This is a lecture/lab course. (A) (GR/P/NP)

DANC 116 Yoga-based Pilates  0.5 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC.
An introduction to yoga-based Pilates exercise techniques. 
(A)  (P/NP)

DANC 120 Beginning Ballet  2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Advisory: ENGL 514
An introduction to the fundamentals of ballet movements at the barre. Movements with emphasis on proper body placement, alignment, control, agility, rhythm and strength. This is a lab course.  (A)  (P/NP)

DANC 121 Intermediate Ballet  2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Advisory: ENGL 514 and DANC 120
A study at the intermediate level of movements appropriate to classical music, including intermediate level ballet barre, center, adagio, turns and allegro movement. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. This is a lecture/lab course.  (F,S)  (GR/P/NP)

DANC 125 Advanced Ballet  3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Advisory: ENGL 514 and DANC 121
Limitation on Enrollment: Audition
Empasizes complex work in the Russian and Italian ballet techniques including turns, beats, and grand allegro. Students have the opportunity to develop ballet performing skills. Attendance of AHC dance concert is required. This is a lecture/lab course. (A) (GR/P/NP)

DANC 126 Clinic in Ballet Barre  0.5 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC
An introduction to the fundamentals of ballet movements at the barre. Movements with emphasis on proper body placement, alignment, control, agility, rhythm and strength. This is a lab course.  (A)  (P/NP)

DANC 130 Beginning Jazz  2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Advisory: ENGL 514
An introduction to the basic movements appropriate to contemporary jazz, emphasizing exercises that develop body stretch and flexibility, and improve rhythmic abilities and movement coordination. Covers different jazz styles, including rock, modern jazz and theater dance. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. This is a lecture/lab course.  (F,S)  (GR/P/NP)

DANC 131 Intermediate Jazz  2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Advisory: ENGL 514
A study at the intermediate level of movements appropriate to contemporary music, including turns, floor work, isolation combinations and rhythm techniques. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. This is a lecture/lab course.  (F,S)  (GR/P/NP)

DANC 133 Hip Hop/Jazz Styles  2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Advisory: ENGL 514
An introduction to hip hop dance styles. Attendance of AHC dance concert is required. This is a lecture/lab course.  (F,S)  (GR/P/NP)

DANC 135 Advanced Jazz  3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Advisory: ENGL 514 and DANC 131
Limitation on enrollment: Audition
A study of jazz technique at the advanced level. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. This is a lecture/lab course.  (A)  (GR/P/NP)

DANC 140 Beginning Folklorico  2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Advisory: ENGL 514
An introduction to the fundamentals of movements appropriate for Mexican folklorico and dances of Spain, emphasizing exercises to improve rhythmic abilities and movement coordination. Attendance of AHC dance concert is required. This is a lecture/lab course.  (F,S)  (GR/P/NP)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Repeatable</th>
<th>Acceptable for credit:</th>
<th>Advisory:</th>
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<tr>
<td>DANC 142</td>
<td>Intermediate Folklorico</td>
<td>0.5</td>
<td>Yes</td>
<td>CSU, UC</td>
<td>DANC 140</td>
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<tr>
<td>DANC 145</td>
<td>Folklorico Zapateados</td>
<td>0.5</td>
<td>Yes</td>
<td>CSU, UC</td>
<td>DANC 140</td>
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<tr>
<td>DANC 148</td>
<td>Folklorico Concert Production</td>
<td>3</td>
<td>Yes</td>
<td>CSU, UC</td>
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<tr>
<td>DANC 150</td>
<td>Hoofing</td>
<td>0.5</td>
<td>Yes</td>
<td>CSU, UC</td>
<td>DANC 152</td>
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<tr>
<td>DANC 151</td>
<td>Clinic in Tap</td>
<td>0.5</td>
<td>Yes</td>
<td>CSU, UC</td>
<td>DANC 152</td>
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<tr>
<td>DANC 152</td>
<td>Beginning Tap</td>
<td>2</td>
<td>Yes</td>
<td>CSU, UC</td>
<td>ENGL 514</td>
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<tr>
<td>DANC 153</td>
<td>Intermediate Tap</td>
<td>2</td>
<td>Yes</td>
<td>CSU, UC</td>
<td>ENGL 514</td>
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<tr>
<td>DANC 154</td>
<td>Pointe &amp; Partnering Clinic</td>
<td>1</td>
<td>Yes</td>
<td>CSU, UC</td>
<td>DANC 121</td>
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<tr>
<td>DANC 155</td>
<td>Clinic in Pilates</td>
<td>0.5</td>
<td>Yes</td>
<td>CSU, UC</td>
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<tr>
<td>DANC 156</td>
<td>Techniques for Stretch</td>
<td>1</td>
<td>Yes</td>
<td>CSU, UC</td>
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<tr>
<td>DANC 160</td>
<td>Clinic in Ballet</td>
<td>0.5</td>
<td>Yes</td>
<td>CSU</td>
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<tr>
<td>DANC 161</td>
<td>Clinic in Intermediate Ballet</td>
<td>0.5</td>
<td>Yes</td>
<td>CSU, UC</td>
<td>DANC 120 or DANC 160</td>
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<tr>
<td>DANC 162</td>
<td>Clinic in Jazz</td>
<td>0.5</td>
<td>Yes</td>
<td>CSU, UC</td>
<td>DANC 130 or DANC 162</td>
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<tr>
<td>DANC 163</td>
<td>Clinic in Intermediate Jazz</td>
<td>0.5</td>
<td>Yes</td>
<td>CSU, UC</td>
<td>DANC 130 or DANC 162</td>
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<tr>
<td>DANC 164</td>
<td>Clinic in Modern Dance</td>
<td>0.5</td>
<td>Yes</td>
<td>CSU, UC</td>
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</tbody>
</table>

**Advisory Notes:**
- DANC 140
- DANC 140
- DANC 152
- DANC 152
- ENGL 514
- ENGL 514
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>DANC 155</td>
<td>Clinic in Hip Hop</td>
<td>0.5</td>
<td>An introduction to hip hop dance. This is a lab course. Acceptable for credit: CSU, UC. Course may be repeated three times. (U) (P/NP)</td>
</tr>
<tr>
<td>DANC 166</td>
<td>Clinic in Intermediate Tap</td>
<td>0.5</td>
<td>Course may be repeated three times. Acceptable for credit: CSU, UC. A study of complex tap rhythms. Advisory: DANC 151 or DANC 152.</td>
</tr>
<tr>
<td>DANC 167</td>
<td>Clinic in Stretch</td>
<td>0.5</td>
<td>Course may be repeated one time. Acceptable for credit: CSU, UC. Designed to help students increase range of motion while decreasing injuries associated with improper preparation for physical activities. Students learn to maintain a position for a sustained period of time in order to allow the body to stretch and warm its muscles. While the class is particularly important to dancers and athletes, all students can benefit. (U) (P/NP)</td>
</tr>
<tr>
<td>DANC 170</td>
<td>Music for Dancers</td>
<td>1</td>
<td>Acceptable for credit: CSU, UC. The study of music and basic rhythms as they relate to dance, including quality, phrasing and extensive practice in counting and moving to music. Advisory: DANC 110, DANC 120 or DANC 130.</td>
</tr>
<tr>
<td>DANC 171</td>
<td>Dance Composition/Choreography</td>
<td>3</td>
<td>Acceptable for credit: CSU, UC. An exploration of movement expression through improvisation and choreographic exercises for the intermediate dance student. Students have an opportunity to work on choreography as a complete concert piece. (U) (GR)</td>
</tr>
<tr>
<td>DANC 172</td>
<td>Beginning Ballroom Dance</td>
<td>0.5</td>
<td>Acceptable for credit: CSU, UC. Students will learn basic ballroom dances including the rhumba, cha-cha, fox trot, waltz, tango, swing and samba.</td>
</tr>
<tr>
<td>DANC 173</td>
<td>Choreography 2</td>
<td>3</td>
<td>Acceptable for credit: CSU, UC. An exploration of movement expression using intermediate-level choreographic exercises. Students will work on several choreographic projects. (A) (GR)</td>
</tr>
<tr>
<td>DANC 174</td>
<td>Intermediate Ballroom</td>
<td>0.5</td>
<td>Acceptable for credit: CSU, UC. A study of complex ballroom dances including cha-cha, tango, rhumba, samba, fox trot, waltz, jive and pasodoble at the intermediate level. (A) (P/NP)</td>
</tr>
<tr>
<td>DANC 175</td>
<td>Clinic in Salsa</td>
<td>0.5</td>
<td>Acceptable for credit: CSU, UC. An introduction to salsa as a social dance form. (U) (P/NP)</td>
</tr>
<tr>
<td>DANC 176</td>
<td>Choreography Field Work</td>
<td>2</td>
<td>Acceptable for credit: CSU. Advisory: ENGL 514. Presents intermediate level projects in choreography that will lead to a performance. (U) (GR)</td>
</tr>
<tr>
<td>DANC 178</td>
<td>Intermediate Social Dance</td>
<td>0.5</td>
<td>Acceptable for credit: CSU, UC. Advisory: DANC 175. A study of complex Latin and jitterbug dance forms. Partner lifts will be explored. (A) (P/NP)</td>
</tr>
<tr>
<td>DANC 179</td>
<td>Experimental Courses in Dance</td>
<td>0.5 to 10</td>
<td>179 - Acceptable for credit: CSU, UC-DAT. For course description, see “Experimental Courses.”</td>
</tr>
<tr>
<td>DANC 180</td>
<td>Performance Lab</td>
<td>3</td>
<td>Acceptable for credit: CSU, UC. Advisory: ENGL 514. Limitation on enrollment: Audition. Provides an opportunity for dance students to utilize all the performance and choreographic skills used in dance performance, including performing on campus in informal concerts and in a major concert in the college theatre. (F,S) (GR)</td>
</tr>
<tr>
<td>DANC 181</td>
<td>Ensemble Summer Production</td>
<td>2</td>
<td>Acceptable for credit: CSU, UC. Advisory: ENGL 514. Limitation on enrollment: Audition. Provides the opportunity for the career-oriented dance performer to work in a repertory company culminating in a main stage concert. The student will be challenged with the rigorous professional experience among practicing professional artists who collaborate in choreography, rehearsal, technical preparation and self analysis. Students may take DANC 181 and DANC 183 or any combination of the two up to a total of four classes. (S) (GR)</td>
</tr>
<tr>
<td>DANC 182</td>
<td>Technical Production Lab</td>
<td>3</td>
<td>Acceptable for credit: CSU, UC. Provides an opportunity for students to develop and apply technical expertise and skills utilized in dance performance, including lighting, costuming, set/prop design, construction and publicity. (F,S) (GR)</td>
</tr>
<tr>
<td>DANC 183</td>
<td>Dance Ensemble</td>
<td>3</td>
<td>Acceptable for credit: CSU, UC. Advisory: ENGL 514. Limitation on enrollment: Audition. Provides an opportunity for the career-oriented dance performer to work in a repertory company culminating in a main stage concert. The student will be challenged with the rigorous professional experience among practicing professional artists who collaborate in choreography, rehearsal, technical preparation and self analysis. Students may take DANC 181 and DANC 183 or any combination of the two up to a total of four classes. (S) (GR)</td>
</tr>
</tbody>
</table>
**DA 310 Exploring Career Opportunities** 3 units
Prerequisite: Completion of requirements for admission to DA program.
An exploration of dental health career options. Provides information that enables students to make informed decisions about future career pathways. (F,S,U) (P/NP)

**DA 314 Introduction to Bio-Dental Science** 3 units
Prerequisite: Completion of requirements for admission to DA program.
Presents basic terminology related to human anatomy and physiology with emphasis on head and neck anatomy. Introduces bio-dental sciences: dental nomenclature, embryology, histology, morphology, pathology, microbiology, pharmacology and preventive dentistry. (F) (GR)

**DA 317 Basic Dental Assisting** 7 units
Prerequisite: Completion of requirements for admission to DA program.
Corequisite: DA 314 and DA 318 and DA 319.
Advisory: Minimum reading comprehension START score of 72.
The course prepares the student to provide patient care with emphasis on diagnostic, restorative and specialty branches of dentistry. Topics include infection control, management of hazardous materials, emergency medical procedures and management of pain and anxiety. (F) (GR)

**DA 318 Basic Dental Assisting Skills** 3 units
Prerequisite: Completion of requirements for admission to DA program.
Corequisite: DA 314 and DA 317 and DA 319.
Advisory: Minimum reading comprehension START score of 72.
The course prepares the student to provide patient care with emphasis on diagnostic, restorative and specialty branches of dentistry. Topics include infection control, management of hazardous materials, emergency medical procedures and management of pain and anxiety. (F) (GR)

**DA 319 DA Administrative Skills** 3 units
Prerequisite: Completion of requirements for admission to DA program.
Corequisite: DA 314 and DA 317 and DA 318.
Advisory: Minimum reading comprehension START score of 72.
This course includes professional and ethical issues facing the dental professional and emphasizes compliance with OSHA and HIPAA regulations and professional licensing requirements. Business skills are reviewed and developed for practical application in the office. Skills include clinical charting systems, communication skills as they relate to patient management, inventory management, appointment book management, patient recall systems and other related administrative duties. Employment strategies are discussed. Dental software is utilized. (F) (GR)

**DA 325 Clinical Dental Procedures** 3.5 units
Prerequisite: Successful completion of all first semester dental assisting courses.
Corequisite: Enrollment in all second semester dental assisting courses.
Foci on intra-oral procedures including temporary crowns, temporary restorations and coronal polishing as well as clinical procedures performed by Registered Dental Assistants. Emphasis is also given to the California State Board testing requirements. (S) (GR)
**DA 326 Dental Radiography**  4 units  
Prerequisite: Successful completion of all first semester dental assisting courses.  
Corequisite: Enrollment in all second semester dental assisting courses.  
Designed to provide study in principles and procedures related to dental radiography, history, radiation physics and biological effects, protection procedures and safety guidelines.  
The course includes film identification, processing, mounting and evaluation. Laboratory exposures on a mannequin cover intra-oral techniques for periapical and bitewing films utilizing various techniques and film-holding devices. Clinical exposures of patients are completed with authorization of a licensed dentist, evaluated by faculty and utilized by the dentist for diagnostic purposes. A certificate will be issued to each student who successfully completes the course. (S) (GR)

**DA 327 Dental Screening**  0.5 unit  
Prerequisite: Successful completion all first semester dental assisting courses.  
Corequisite: Enrollment in all second semester dental assisting courses.  
Provides clinical experiences in dental screening skills. Emphasis is on performing four-handed chair-side dental assisting, identifying and recording patient clinical findings of intra-oral and extra-oral dental examinations. Eligible patients would be provided with the opportunity to schedule subsequent dental appointments in radiography, coronal polish and pit and fissure sealants clinics. (S) (GR)

**DA 328 Pit & Fissure Sealants**  1 unit  
Prerequisite: Successful completion of all first semester dental assisting courses.  
Corequisite: Enrollment in all second semester dental assisting courses or currently licensed as a Registered Dental Assistant.  
Advisory: Minimum reading comprehension START score of 72.  
The course provides theory and clinical applications of resin materials and pit and fissure sealants on developing teeth to prevent cavities. Open to currently Registered Dental Assistants who have proof of HBV vaccination and hold a current CPR card. (S) (GR)

**DA 329 Dental Assisting Practicum**  5 units  
Prerequisite: Successful completion of all first semester dental assisting courses.  
Corequisite: Enrollment in all second semester dental assisting courses.  
Provides supervised learning experiences in the various applications of dental assisting skills. (S) (GR)

**DA 330 Coronal Polish**  1 unit  
Prerequisite: Successful completion of all first semester dental assisting courses or DA 331 and eligibility to take RDA licensure examination.  
Corequisite: Enrollment in All second semester dental assisting courses.  
This course meets the requirements of the California Board of Dentistry. It includes techniques for removal of pellicle, plaque and extrinsic stain from the clinical crown. Students will be evaluated on adherence to sterilization and infection control policies and procedures as well as actual provision of care on three dental patients. (S) (GR)

**DA 331 Infection Control in Dentistry**  0.5 unit  
This course is designed to train dental professionals in the latest OSHA and CDS concepts of infection control. It includes modes of disease transmission and prevention of HBV and HIV. It focuses on sterilization and surface disinfection. It reviews the safe handling of chemical hazards in dentistry. The course will enable the dental assistant to understand and comply with OSHA regulations. (GR/P/NP)

**DA 332 RDA Law and Ethics**  0.5 unit  
Prerequisite: Successful completion of all first semester dental assisting courses.  
Corequisite: Enrollment in all second semester dental assisting courses.  
The course prepares students to take the California Dental law and ethics examination. It covers the licensure requirements, scope of practice of the registered dental assistant, revocation of license and ethical standards of practice. (S) (GR)

**DA 348 RDA - Success Seminar**  0.5 unit  
Prerequisite: Successful completion of all second semester dental assisting program courses.  
Corequisite: Enrollment in all second semester dental assisting courses.  
Designed to prepare students for the written components of the State Board examination. The California State Practice Act will be reviewed. (S) (GR)

**DA 380 Dental Assisting Skills Lab**  0.5 unit  
Course may be repeated two times.  
Corequisite: Enrollment in the dental assisting program.  
Open-entry laboratory course designed to provide students with the opportunity to refine and expand skills learned in the corequisite program. Students may repeat the course as they progress through the program. (F,S) (GR)

**DRAMA**

**DRMA 101 Applied Professional Acting I**  10 units  
Acceptable for credit: CSU, UC  
Limitation on enrollment: Completion of the program application and procedures for enrollment.  
Advisory: Eligibility for ENGL 301 or ENGL 101.  
The required prerequisite to all sophomore theatre arts courses. In a series of lectures, demonstrations, activities, assigned readings and laboratory projects, the student examines the theatrical synthesis by exploring the elements of the actor's instrument and process from the specific standpoint of the professional actor. Team-taught by the drama faculty, staff and resident and guest artists, the student examines the aesthetics and theory of the drama, the nature of dramatic action and the arts and crafts vital for communication with an audience. The class explores the interpretation of drama through the art of the actor, with exercises and laboratory projects designed to develop the actor's vocal, physical, emotional, creative and intellectual capacities. This course is the equivalent of three units of basic acting, two units of stage craft, two units of voice and speech, two units of dramatic theory and one unit of movement. (F) (GR)

**DRMA 102 Applied Professional Acting II**  10 units  
Acceptable for credit: CSU, UC  
Limitation on enrollment: Audition and interview.  
Prerequisite: DRMA 101  
A continuation of DRMA 101, with emphasis on individual development. (S) (GR)
DRMA 103 Theatre Appreciation 3 units
Acceptable for credit: CSU, UC
Explores theatre as an artistic medium for enhancing understanding of the diversity of the human experience and as a reflection of the development of civilization. Emphasizes the theatre’s relevance to the contemporary world. (A) (GR/P/NP)

DRMA 104 Introduction to Acting 3 units
Acceptable for credit: CSU, UC
An introduction to the techniques of the actor, emphasizing theatre games, improvisation, pantomime, observation, concentration and sense memory. (F,S) (GR/P/NP)

DRMA 106 Intermediate Acting/Scene Study 3 units
Acceptable for credit: CSU, UC
Prerequisite: DRMA 104
Advisory: Eligibility for ENGL 101 or ENGL 301
An intermediate study of the acting process as a means to enhance personal expression and promote professional growth. Development of individual insight, skill and discipline in the presentation of dramatic materials through lecture, demonstration, interactive exercises, monologue study and partnered scene work is emphasized. (F,S,U) (GR/P/NP)

DRMA 110 History of the World Theatre 1 3 units
Acceptable for credit: CSU, UC
Prerequisite: DRMA 120
Advisory: Eligibility for ENGL 101 or ENGL 301
A history of the development of the theatre, including its playwrights, structures and methods of staging and acting from the Greeks to 1642. (S) (GR/P/NP)

DRMA 111 History of the World Theatre 2 3 units
Acceptable for credit: CSU, UC
Prerequisite: DRMA 102
A history of the development of the theatre, including its playwrights, structures and methods of staging and acting from 1642 to the contemporary period. (F) (GR/P/NP)

DRMA 112 Theatre Production Laboratory 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Prerequisite: DRMA 102
Limitation on enrollment: Completion of the program application and procedures for enrollment
Advisory: Eligibility for ENGL 101 or ENGL 301
The exploration and development of a theatrical production. The class is team-taught by the drama faculty and professional staff in conjunction with resident and guest artists. Among practicing professional artists who collaborate in a program of lecture, rehearsal, technical preparation, self-analysis and discussion. (U) (GR/P/NP)

DRMA 113 Performance Laboratory 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Prerequisite: Completion of the program application and procedures for enrollment
Advisory: Eligibility for ENGL 101 or ENGL 301
Required of all acting majors. In this laboratory the student can apply and develop all of the skills utilized in dramatic performance. Absence from a production laboratory meeting is allowed only with prior approval of the instructor. (F,S,U) (GR)

DRMA 114 Intro to Theatre Laboratory 1 unit
Course may be repeated three times.
Acceptable for credit: CSU
Prerequisite: Completion of the program application and procedures for enrollment
Advisory: Eligibility for ENGL 101 or ENGL 301
An introduction to theatre production, exploring the theatrical synthesis from the specific standpoint assigned readings and laboratory projects, the student is placed in the repertory company according to proficiency in a major area of emphasis. Areas of study include acting, singing, dance, design, costume crafts, property crafts, lighting, sound and scenery crafts, marketing or house and stage management. Within the framework of preparation for touring repertory theatre, the student is challenged with the rigors of a professional experience among practicing professional artists who collaborate in a program of lecture, rehearsal, technical preparation, self-analysis and discussion. (U) (GR/P/NP)

DRMA 115 Repertory Theatre 10 units
Course may be repeated three times.
Acceptable for credit: CSU
Limitation on enrollment: Audition or interview.
The career-oriented theatre student works in every aspect of production for a touring multiple-production season. Each student is placed in the repertory company according to proficiency in a major area of emphasis. Areas of study include acting, singing, dance, design, costume crafts, property crafts, lighting, sound and scenery crafts, marketing or house and stage management. Within the framework of preparation for touring repertory theatre, the student is challenged with the rigors of a professional experience among practicing professional artists who collaborate in a program of lecture, rehearsal, technical preparation, self-analysis and discussion. (U) (GR/P/NP)

DRMA 118 Intro to Technical Theatre Lab 1 unit
Course may be repeated three times.
Acceptable for credit: CSU
Limitation on enrollment: Interview with PCPA Theaterfest's Production Manager.
An opportunity to experience technical theatre by assisting in one of the PCPA shops (lighting, sound, scenery, costumes, paints, props); the design studio; the stage management office; or on the running crew of a production. (S) (GR/P/NP)

DRMA 120 Adv Professional Acting I 10 units
Acceptable for credit: CSU, UC
Prerequisite: DRMA 102
Limitation on enrollment: Audition and interview.
Through a series of lectures, demonstrations, activities, assigned readings and laboratory projects, the student explores the theatrical synthesis from the specific standpoint of the professional actor. Practical application of basic acting skills in the major theatrical styles, with emphasis on personal acting problems, is supplemented by more intensive classes in vocal skills (including voice production and projection, articulation, use of the International Phonetic Alphabet and Standard American Speech) and body techniques for the actor (including techniques of relaxation, body alignment and concentration of energy, as well as solutions to specific physical problems required of the actor by period styles and production concepts). Script analysis and the techniques for scoring a dramatic text are also covered. The class is team-taught by the drama faculty and staff in conjunction with resident and guest artists. (F) (GR)

DRMA 121 Adv Professional Acting II 10 units
Acceptable for credit: CSU, UC
Prerequisite: DRMA 120
Limitation on enrollment: Audition and interview.
A continuation of DRMA 120 with specific emphasis on personal acting problems. (S) (GR)
DRMA 122 Stage Management 2 units
Acceptable for credit: CSU
Advisory: Eligibility for ENGL 101 or ENGL 301
Limitation on enrollment: Completion of the program application and procedures for enrollment.
An exploration of basic stage managerial skills for organizing, preparing and fulfilling theatrical production from inception through rehearsal and performance. (F,S) (GR)

DRMA 123 Theatre Graphics 2 units
Acceptable for credit: CSU, UC
Limitation on enrollment: Completion of the program application and procedures for enrollment.
Advisory: Eligibility for ENGL 101 or ENGL 301
Explores the language of drawing and painting for the theatre and the techniques used to communicate visual ideas in the theatre. Hand drawing, the use of basic perspective, working with color and supporting computer applications are emphasized. (F,S) (GR)

DRMA 124 Scenery Stagecraft 2 units
Acceptable for credit: CSU, UC
Prerequisite: Completion of the program application and procedures for enrollment.
Advisory: Eligibility for ENGL 101 or ENGL 301
An exploration of stagecraft with an emphasis on the tools and techniques used in set construction. Construction and production safety, commonly used materials, design-appropriate building techniques and understanding blueprints are explored through lecture and hands-on lab application. Required for all technical theatre majors. (F,S) (GR)

DRMA 125 Properties Stagecraft 2 units
Acceptable for credit: CSU, UC
Prerequisite: Completion of the program application and procedures for enrollment.
Advisory: Eligibility for ENGL 101 or ENGL 301
An exploration of stagecraft with an emphasis on the tools and techniques used in stage properties design and construction. Integrated construction techniques, commonly used materials, historic research, product resources and design-appropriate building techniques are explored. (F,S) (GR)

DRMA 126 Script Analysis for Technicians 2 units
Acceptable for credit: CSU
Advisory: Eligibility for ENGL 101 or ENGL 301
Limitation on enrollment: Completion of the program application and procedures for enrollment.
Explores script analysis for theatrical production. Focus is on the technician’s role in the production based on the artistic team’s analysis. Techniques used to evaluate and communicate ideas in the theatre are examined. (F) (GR)

DRMA 128 Makeup for Stage/TV 3 units
Acceptable for credit: CSU
This course will offer the student a practical guide to the theory and practice of makeup for theatre, film and television. Students will become familiar with traditional approaches to makeup, special effects and prosthetics. Various conceptual and technical problems will be studied and solved. (F,S) (GR)

DRMA 132 Stage Management 2 units
Acceptable for credit: CSU, UC
Prerequisite: DRMA 123
The first of two courses that explores fundamental set design and drafting techniques, including hand drafting, computer applications such as Vectorworks, set model construction and black and white elevation development. (F,S) (GR)

DRMA 137 Design & Technology–Sets 1 1 unit
Acceptable for credit: CSU, UC
Prerequisite: DRMA 136
The second of two courses presenting the techniques used in set design, including script analysis, communication techniques with the director, design development, model painting and paint elevation development. Hand and computer color techniques will be explored. Required for all technical theatre majors. (F,S) (GR)

DRMA 140 Design & Technology–Lights 1 2 units
Acceptable for credit: CSU, UC
Prerequisite: DRMA 140
The first of two courses that explores fundamental theatrical lighting terms, tools and equipment. Basic electricity, instrument identification, color media and production procedures applicable to the use of lights for illumination and practical instruments will be discussed and demonstrated. (F,S) (GR)

DRMA 141 Design & Technology–Lights 2 1 unit
Acceptable for credit: CSU, UC
Prerequisite: DRMA 140
The second of two courses that explores theatrical lighting through lighting techniques. Includes design principals, computer applications, the role of the assistant lighting designer and script analysis appropriate to creating a light plot. (F,S) (GR)

DRMA 151 Design & Technology–Costumes 1 2 units
Acceptable for credit: CSU, UC
Advisory: Eligibility for ENGL 101 or ENGL 301
Limitation on enrollment: Completion of the program application and procedures for enrollment.
The first of two courses that explores the fabrics, tools and techniques used in costume and soft goods construction for theatrical application. Hand sewing and machine sewing techniques, basic garment and project construction and theatrical decoration are emphasized. (F,S) (GR)

DRMA 152 Design & Technology–Costumes 2 1 units
Acceptable for credit: CSU, UC
Prerequisite: DRMA 151
The second of two courses that explores the techniques used in costume design. Includes advanced construction techniques, script analysis, communication techniques with the director, costume plot management, design development and costume rendering techniques. The role of the design assistant and communication processes with the costume shop manager will be discussed. (F,S) (GR)
DRMA 161 Design & Technology–Sound 1  2 units  
Acceptable for credit:  CSU, UC  
Prerequisite: Completion of the program application and procedures for enrollment.  
Advisory: Eligibility for ENGL101 or ENGL 301  
The first of two courses that explores through lecture, demonstration and lab projects the mechanics of sound, the production process for a variety of playback systems, the function and proper use of equipment and developing a critical ear. Required for all technical theatre majors.  (F,S) (GR)

DRMA 162 Design & Technology–Sound 2  1 unit  
Acceptable for credit:  CSU, UC  
Prerequisite: DRMA 161  
The second course exploring sound technology that further explores sound design development, implementation and playback systems. Design principals, script analysis and fine-tuning listening skills will be studied through class discussion, demonstration and class projects. Required for all technical theatre majors.  (F,S) (GR)

DRMA 165 Scene Painting 1  1 unit  
Acceptable for credit:  CSU  
Advisory: Eligibility for ENGL 101 or ENGL 301  
Limitation on enrollment: Completion of the program application and procedures for enrollment.  
The first of two courses that explores the tools, techniques and terminology used in the craft of scene painting. Topics include the role of the scenic artist in the production process.  (F,S)  (GR)

DRMA 166 Scene Painting 2  2 units  
Acceptable for credit:  CSU  
Prerequisite: DRMA 165  
The second of two courses that explore the technical and aesthetic craft of scene painting with an emphasis on faux painting techniques (techniques which represent real surfaces), trompe l’oeil painting and working from a graphics image.  (F,S) (GR)

DRMA 173 Project Development in Theatrical Design  1 unit  
Course may be repeated three times.  
Acceptable for credit:  CSU, UC  
Prerequisite: DRMA 124 and DRMA 125 and DRMA 136 and DRMA 140 and DRMA 151 and DRMA 161.  
Corequisite: Completion of or concurrent enrollment in DRMA 177  
An exploration of the aesthetics and theory of theatrical design and production through in-depth study of a design and production component. Team taught by theatre faculty with project work designed to enhance the student's skill and knowledge in a chosen component and build the portfolio. Project work can result in theoretical studies and designed, created technical prototypes or production elements created for PCPA productions.  (S) (GR)

DRMA 175 Advanced Scenery Stagecraft  1 unit  
Acceptable for credit:  CSU, UC  
Prerequisite: DRMA 124  
An advanced study of stagecraft techniques and procedures used to construct scenery and scenic elements as they apply to PCPA productions and the industry at large. The role of the technical director and the skills needed to plan, manage and complete construction of scenic elements will be explored through lecture, demonstration and assigned projects. Concurrent enrollment in DRMA 125 permitted. Required for all technical theatre majors.  (F,S) (GR)

DRMA 176 Advanced Properties Stagecraft  1 unit  
Acceptable for credit:  CSU, UC  
Prerequisite: DRMA 125  
The second of two courses that explore research techniques and organizational systems used to create and manage stage properties for theatrical productions. Internet and library resources, catalog resources, interdepartmental communications, managing a construction calendar and other complex construction techniques are explored through discussion, demonstration and project work. Required for all technical theatre majors.  (F,S) (GR)

DRMA 177 Scenography  2 units  
Acceptable for credit:  CSU  
Prerequisite: DRMA 124 and DRMA 125 and DRMA 136 and DRMA 140 and DRMA 151 and DRMA 161.  
Corequisite: DRMA173  
The study, integration and presentation of technical components as applied to a theatrical production. Provides an opportunity for skills application in a collaborative environment.  (S)  (GR)

DRMA 178 Basic Competencies in Technical Theater  6 units  
Course may be repeated three times.  
Advisory: Eligibility for ENGL 301 or ENGL 101 and MATH 300. Corequisite: DRMA 302  
A four-semester vocational exploration of the crafts of the modern theater. An exploration of stagecraft with an emphasis on the tools and techniques used in professional theater. Production safety, construction, materials, tools, communication, theory and practice are explored in a lecture environment. Required for all technical theatrical majors.  (S) (GR)

DRMA 179, 379 Experimental Courses in Drama  0.5 to 10 units  
179 - Acceptable for credit:  CSU, UC-DAT  
For course description, see "Experimental Courses."

DRMA 189, 389 Independent Projects in Drama  1 to 3 units  
Acceptable for credit:  CSU, UC-DAT  
For course description, see "Independent Projects."

DRMA 199 Special Topics in Drama  0.5 to 3 units  
199 - Acceptable for credit:  CSU, UC  
For course description, see "Special Topics."

DRMA 301 Actors’ Ensemble  6 units  
Course may be repeated three times.  
Limitation on enrollment: Audition  
An opportunity for experienced acting students to participate in an ensemble situation and to enhance their personal skill levels by interacting with other ensemble members as they perform together in a variety of production styles.  (F,S) (GR)
DRMA 302 Internship in Technical Theatre  6 units
Course may be repeated three times.
Limitation on enrollment: Audition, interview and portfolio review.
A vocational course offering the opportunity for theatre technician/design practitioners to update, develop and refine their skills in a functioning theatre setting. Under the supervision of the professional staff, the students polish a variety of theatre skills through working with beginning students in the areas of drafting, design aesthetics, stage managing, lighting, scenic production techniques and all aspects of costuming, properties and sound production. (F, S) (GR)

DRMA 303 Advanced Participation in Theatrical Production 1 unit
Course may be repeated four times.
Limitation on enrollment: Course includes public performances, limitation based on interview and/or portfolio review.
A focused vocational course offering the opportunity for theatre practitioners to update, develop and refine their skills on a specific topic in a professional theatre setting. Under the supervision of the professional staff, the students hone theatre skills and expand résumés and portfolios through their participation in the development and performance of a variety of theatrical productions in a repertory season. (S) (GR)

DRMA 304 Internship in Technical Production 10 units
Course may be repeated four times.
Limitation on enrollment: Course includes public performances, limitation based on interview and/or portfolio review.
A vocational course offering the opportunity for theatre practitioners to update, develop and refine their skills in a professional theatre setting. Under the supervision of the professional staff, the students hone theatre skills and expand résumés and portfolios through their participation in the development and performance of a variety of theatrical productions in a repertory season. (S) (GR)

DRMA 401 Prof Theatre Dance Styles 2 units
Acceptable for credit: CSU
An introduction to theatre dance styles appropriate to professional classic and contemporary musical theatre productions, emphasizing exercises which develop body stretch and strength and improve rhythmic abilities and movement coordination. The course covers different musical theatre styles including ballet, modern, jazz and tap dance. Students will learn techniques for choreography acquisition and how to succeed in professional dance audition calls. (F, S) (GR)

ECS 101 Child, Family and Community 3 units
Acceptable for credit: CSU, UC
Advisory: Eligibility for ENGL 513
An examination of the historical and cultural factors which influence the reciprocal socialization of the child within the context of family, classroom and the community. Issues addressed include the effects of divorce, single parenthood, rapid cultural change, child care, the media, working with culturally diverse families, parent-school relations, children with disabilities, child abuse prevention and the effects of stress and trauma in all children’s lives. (F, S, U) (GR/P/NP)

ECS 102 Child Health, Safety & Nutrition 3 units
Acceptable for credit: CSU
This course provides an introduction to the principles, procedures, standards and laws concerning health and nutrition for young children. Key components regarding the health, safety and nutrition of young children will be identified, analyzed and applied. Importance of and techniques for collaboration and communication with families and outside agencies will be identified and practiced. This course fulfills the Title 22 requirement for health and safety education for child care workers. (F, S, U) (GR/P/NP)

ECS 104 Principles and Practices 3 units
Acceptable for credit: CSU
Advisory: ECS 100 and eligibility for ENGL 513
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. (F, S) (GR/P/NP)

ECS 105 Observation and Assessment 3 units
Acceptable for credit: CSU
Prerequisite: ECS 100
This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play and learning for use in collaborative partnerships with families and professionals in promoting children’s success. Recording strategies, rating systems, portfolios and multiple assessment tools are explored. (F, S) (GR/P/NP)

ECS 106 Introduction to Early Childhood Curriculum 3 units
Acceptable for credit: CSU
Prerequisite: ECS 105
The study of planning developmentally appropriate curriculum and environments in the early childhood areas of art, social studies, literature, language, diversity, music, movement, cooking and nutrition, math and science. Students will examine the teacher’s role in supporting children’s development and joy of learning through observation, assessment and implementation of various curriculum activities. (F, S) (GR/P/NP)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ECS 111</td>
<td>Supervision &amp; Administration</td>
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<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Prerequisite: ECS 106</td>
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<tr>
<td></td>
<td>Principles and practices in the supervision and administra-</td>
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<td>tion of various kinds of nursery schools and child care</td>
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<td>centers, including program planning, organizational</td>
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<td>structure, budgeting, personnel administration, legal</td>
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<td>requirements and food management. (S) (GR/P/NP)</td>
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<tr>
<td>ECS 112</td>
<td>Preschool Child with Special Needs</td>
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<td>Acceptable for credit: CSU</td>
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<td>Prerequisite: ECS 100</td>
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<td></td>
<td>Provides an overview of the characteristics of &quot;special</td>
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<td>needs&quot; preschool children and considers those educational</td>
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<td>approaches most suited to their particular needs. (S)</td>
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<td>(GR/P/NP)</td>
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<td>ECS 113</td>
<td>Infant Intervention</td>
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<td>Acceptable for credit: CSU</td>
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<td>Advisory: ECS 100 and ECS 112</td>
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<td></td>
<td>Designed to acquaint students with the characteristics</td>
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<td>of atypical infants and toddlers, age 0-3 years; assessment;</td>
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<td>family/professional partnerships; and techniques for</td>
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<td></td>
<td>intervention in developmental areas of sensory regulation,</td>
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<td>motor control, cognition, language, social and self-help</td>
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<td>skills. Explores community and career opportunities in</td>
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<td></td>
<td>fields related to atypical infants/toddlers: early childhood studies, special education medicine, therapy, social work, aide and interpreter skills. (S,A) (GR/P/NP)</td>
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<tr>
<td>ECS 114</td>
<td>Parent/Child Relationships</td>
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<td>Acceptable for credit: CSU</td>
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<td>Advisory: ECS 100</td>
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<td></td>
<td>Examines socio-cultural and psychological perspectives on</td>
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<td>parent/child relationships by investigating typical and atypical child-rearing patterns from infancy. Topics include analysis of developmental issues between parents and children, the nature of permanent relationships and effective models of parental practices. (F,S) (GR/P/NP)</td>
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<td>ECS 115</td>
<td>Caring for Infants &amp; Toddlers</td>
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<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Advisory: ECS 100</td>
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<tr>
<td></td>
<td>Care and education of infants and toddlers, emphasizing</td>
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<td>environments that facilitate optimum physical, social and</td>
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<td>cognitive growth and development as well as positive relationships with families. (F) (GR/P/NP)</td>
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<tr>
<td>ECS 116</td>
<td>Teaching in a Diverse Society</td>
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<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Advisory: ECS 100 and ECS 101 and ENGL 513</td>
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<td></td>
<td>Examination of the development of social identities in</td>
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<td>diverse societies including theoretical and practical implications of oppression and privilege as they apply to all children, families, programs, classrooms and teaching. The course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. This course is designed to help students recognize and confront barriers that interfere with their ability to work effectively with diverse populations through using various strategies and to enhance skills needed to educate children in a pluralistic society. (F,S) (GR)</td>
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<tr>
<td>ECS 117</td>
<td>Teaching the Hispanic Child</td>
<td>3</td>
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<td>Acceptable for credit: CSU</td>
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<td>Examines the cultural context of the Spanish-speaking child as well as bilingual/bicultural educational models and offers an overview of the role of the teacher, instructional aide and parents in the educational process. (F) (GR/P/NP)</td>
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<td>ECS 118</td>
<td>Practicum: Preschool</td>
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<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Prerequisite: ECS 106 with a “C” or better</td>
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<td>This course includes 4.5 hours of supervised practicum</td>
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<td>teaching in the preschool area of the Allan Hancock College Children’s Center lab school. The accompanying seminar focuses on teaching goals and strategies, reflections, insights, accomplishments and challenges specific to working with preschool age children. No concurrent enrollment is allowed in ECS 118 and ECS 119. (F,S,U) (GR)</td>
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<tr>
<td>ECS 119</td>
<td>Practicum: Infant/Toddler</td>
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<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Prerequisite: ECS 106 with a “C” or better</td>
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<td>This course involves 4.5 hours of supervised practicum</td>
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<td>teaching in the infant/toddler area of the Allan Hancock College Children’s Center lab school. The accompanying seminar focuses on teaching goals and strategies, reflections, insights, accomplishments and challenges specific to working with infant/toddler age children. No concurrent enrollment is allowed in ECS 118 and ECS 119. (F,S,U) (GR)</td>
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<tr>
<td>ECS 120</td>
<td>Mentor Teacher &amp; Adult Supervision</td>
<td>2</td>
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<td>Acceptable for credit: CSU</td>
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<td>Emphasizes the role of experienced classroom teachers who function as mentors to new teachers or other adults while simultaneously addressing the needs of children, parents and other staff. (F) (GR)</td>
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<td>ECS 121</td>
<td>Family Child Care Business</td>
<td>2</td>
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<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Specialized instruction for students who plan to operate a family child care business. Includes California licensing procedures, marketing techniques, contracts and fees and other aspects of operating an independently-owned business. (F) (GR/P/NP)</td>
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<td>ECS 122</td>
<td>Positive Child Guidance</td>
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<td>Acceptable for credit: CSU</td>
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<td>This course will explore developmentally appropriate</td>
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<td>guidance and discipline for children birth through middle childhood. Strategies and techniques for developing and maintaining an encouraging classroom will be studied. The historical perspective of guidance and discipline will be studied as well as new trends, classroom techniques and teaching strategies. The roles of family, community and school in the encouraging classroom and the development of a child’s democratic life skills will be explored. (F,S) (GR/P/NP)</td>
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<tr>
<td>ECS 125</td>
<td>Curriculum for School-Age Children</td>
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<td>Acceptable for credit: CSU</td>
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<td>Advisory: ECS 100 and ECS 101</td>
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<td>A study of the developmental needs, appropriate curriculum and guidance techniques for children 6 to 12 years old in a child care setting. This course meets Title 22 curriculum requirements for teachers and directors in extended daycare programs. (F,S) (GR/P/NP)</td>
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### EARLY CHILDHOOD STUDIES 145

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ECS 130</td>
<td>Exploring Teaching</td>
<td>3 unit</td>
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<td><em>Acceptable for credit: CSU, UC</em></td>
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<td></td>
<td><em>Advisory: Eligibility for ENGL 101</em></td>
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<tr>
<td></td>
<td>Introduces concepts and issues related to</td>
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<td>teaching diverse learners in today’s</td>
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<td>contemporary public schools. Topics</td>
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<td>include teaching as a profession and</td>
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<td>career, contemporary educational issues,</td>
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<td></td>
<td>California’s content and performance</td>
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<td></td>
<td>standards and frameworks and requirements</td>
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<td>for earning the teaching credential. A</td>
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<td>48-hour structured field experience</td>
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<td>provides opportunities to observe and</td>
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<td>work in a variety of educational settings.</td>
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<td></td>
<td>Not open to students who are enrolled</td>
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<td></td>
<td>in or have completed EDUC 130. <em>(F,S) (GR)</em></td>
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<tr>
<td>ECS 132</td>
<td>Child - Identity &amp; Learning</td>
<td>3 unit</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td></td>
<td><em>Advisory: ECS 100 or PSY 101</em></td>
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<tr>
<td></td>
<td>Child development concepts applied to all</td>
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<td>aspects of the elementary school-age child</td>
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<td>special emphasis on multicultural and</td>
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<td></td>
<td>responsive teacher-child practices,</td>
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<td></td>
<td>including understanding diverse learning</td>
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<td>styles, influences of culture and</td>
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<td></td>
<td>language acquisition. This course is not</td>
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<td></td>
<td>open to students who are enrolled in or</td>
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<tr>
<td></td>
<td>have completed EDUC 132. <em>(S) (GR)</em></td>
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<tr>
<td>ECS 133</td>
<td>Technology for Educators</td>
<td>3 unit</td>
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<td></td>
<td><em>Acceptable for credit: CSU</em></td>
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<tr>
<td></td>
<td>A study of computing technologies afforded</td>
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<td></td>
<td>young children in preschool and primary-</td>
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<td>grade classrooms and how these experiences</td>
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<td>influence children’s cognitive, social</td>
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<td></td>
<td>and physical development. Curricular</td>
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<td>criteria and strategies for</td>
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<td>implementation will be explored. This</td>
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<td>course is not open to students who are</td>
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<td>enrolled in or have received credit for</td>
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<td></td>
<td>EDUC 133. <em>(F,S) (GR/P/NP)</em></td>
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<tr>
<td>ECS 149</td>
<td>Cooperative Work Experience:</td>
<td>1 to 8</td>
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<td></td>
<td>Occupational</td>
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<td>Course may be repeated three times.</td>
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<td><em>Acceptable for credit: CSU, UC-DAT</em></td>
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<td>For course description, see “Cooperative</td>
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<tr>
<td></td>
<td>Work Experience: Occupational.”</td>
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<tr>
<td>ECS 179, 379</td>
<td>Experimental Courses in Early</td>
<td>0.5 to 10</td>
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<td></td>
<td>Childhood Studies</td>
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<td><em>179 - Acceptable for credit: CSU, UC-DAT</em></td>
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<td>For course description, see “Experimental</td>
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<td>Courses.”</td>
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<tr>
<td>ECS 189</td>
<td>Independent Projects in Early Childhood</td>
<td>1 to 3</td>
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<tr>
<td></td>
<td>Studies</td>
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<td></td>
<td><em>Acceptable for credit: CSU, UC-DAT</em></td>
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<td>For course description, see &quot;Independent</td>
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<td>Projects.&quot;</td>
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<tr>
<td>ECS 199, 399</td>
<td>Special Topics in Early Childhood</td>
<td>0.5 to 3</td>
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<td>Studies</td>
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<td></td>
<td><em>199 - Acceptable for credit: CSU, UC-DAT</em></td>
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<td>For course description, see “Special</td>
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<td></td>
<td>Topics.”</td>
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<tr>
<td>ECS 303</td>
<td>Intro to Research Methodologies</td>
<td>1 unit</td>
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<td><em>Advisory: IS 300</em></td>
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<td>Provides necessary skills to effectively</td>
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<td></td>
<td>research child development topics using</td>
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<td></td>
<td>the Internet. The course is taught online</td>
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<td>through demonstrations and hands-on</td>
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<td>computer interactions enabling students to</td>
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<td></td>
<td>successfully use Blackboard. *(F,S) (GR/P/</td>
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<td>NP)*</td>
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### ECONOMICS

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<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ECON 101</td>
<td>Principles of Macro-Economics</td>
<td>3 unit</td>
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<td></td>
<td><em>Acceptable for credit: CSU, UC</em></td>
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<td></td>
<td>ECON 101 may be taken prior to or</td>
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<td>concurrently with ECON 102.</td>
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<td></td>
<td>An introduction to aggregate economic</td>
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<td></td>
<td>analysis. Topics include market systems;</td>
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<td>economic cycles including recession,</td>
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<td>unemployment and inflation; national</td>
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<td>income accounts; macroeconomics</td>
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<td>equilibrium; money and financial</td>
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<td>institutions; monetary and fiscal policy;</td>
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<tr>
<td></td>
<td>and international trade and finance.</td>
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<td><em>(F,S,U) (GR)</em></td>
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</table>
ECON 102 Principles of Micro-Economics 3 units
Acceptable for credit: CSU, UC
ECON 102 may be taken prior to or concurrently with ECON 101.
An introduction to types of individual economic units. Topics include scarcity, opportunity costs, comparative advantage, supply, demand, elasticity, cost theory, price and output determination under various market structures and factor markets. Related topics such as international trade, public choice, income distribution, externalities and government regulation will also be included. (F,S,U) (GR)

ECON 121 Business Economics 3 units
Acceptable for credit: CSU
May be taken prior to or concurrently with ECON 101 or ECON 102.
An introduction to basic economic analysis and institutions. Macroeconomic analysis of income, employment, price level and international trade. Microeconomic analysis of demand, production, competitive and noncompetitive product markets and factor markets. Emphasis is placed on the applications of economic theory in the business environment. This course is not open to students who are enrolled in or have received credit for BUS 121. (F,S,U) (GR)

ECON 130 Consumer & Family Finance 3 units
Acceptable for credit: CSU
Designed to assist individuals and/or those working with individuals to analyze and direct their financial affairs. Elements and concepts of financial planning and decision making in the areas of budgeting, taxes, borrowing, money management, consuming, insurance, investments, retirement and estate planning will be analyzed with an emphasis on application to changing family needs. This course is not open to students who are enrolled in or have received credit for BUS 130 or FCS 130. (F,S,U) (GR/P/NP)

ECON 141 Global Economics 3 units
Acceptable for credit: CSU, UC
Advisory: Completion or concurrent enrollment in ECON 101 or ECON 102 or ECON 121 or BUS 121.
An introduction to international economic issues. Explores why countries trade and addresses the consequences of trade restrictions. Alternative exchange rate systems, factors that cause exchange rate fluctuations and the determinants of a country's balance of trade are covered. Other topics include the politics of trade policy, the impact of trade on the job market, the role of international institutions in the global economy, financial crises, global environmental issues and international debt problems. This course is not open to students who are enrolled in or have received credit for BUS 141 or GBST 141. (F,S,U) (GR/P/NP)

ECON 199, 399 Special Topics in Economics 0.5 to 3 units
199 - Acceptable for credit: CSU, UC-DAT
For course description, see “Special Topics.”

EDUC 130 Exploring Teaching 3 units
Acceptable for credit: CSU, UC
Advisory: Eligibility for ENGL 101
Introduces concepts and issues related to teaching diverse learners in today's contemporary public schools. Topics include teaching as a profession and career, contemporary educational issues, California's content and performance standards and frameworks and requirements for earning the teaching credential. A 48-hour structured field experience provides opportunities to observe and work in a variety of educational settings. Not open to students who are enrolled in or have completed ECS 130. (F,S) (GR)

EDUC 132 Child - Identity & Learning 3 units
Acceptable for credit: CSU
Advisory: ECS 100 or PSY 101
Child development concepts applied to all aspects of the elementary school-age child; special emphasis on multicultural and responsive teacher-child practices, including understanding diverse learning styles, influences of culture and language acquisition. Not open to students who are enrolled in or have completed ECS 132. (S) (GR)

EDUC 133 Technology for Educators 3 units
Acceptable for credit: CSU
A study of computing technologies afforded young children in preschool and primary-grade classrooms and how these experiences influence children's cognitive, social and physical development. Curricular criteria and strategies for implementation will be explored. This course is not open to students who are enrolled in or have received credit for ECS 133. (F,S) (GR/P/NP)

EDUC 140 Math and Science Teaching Careers 1 units
Acceptable for credit: CSU, UC
Advisory: Eligibility for ENGL 101 and MATH 331
This course is designed to expose math and science students to successful academic practices as well as the teaching profession. Students will explore a variety of teaching methods by observing local math and science teachers. The course introduces current issues in math and science education. Students will begin to complete required early experience hours needed to enter a teaching credential program. (F,S) (GR/P/NP)

EL 104 Intro to Robotics & Mechatronics 3 units
Acceptable for credit: CSU
An introduction to robotic control applications. Basic electronics including digital, analog and microcontroller devices, sensors and transducers and actuators will be emphasized for automation control. Topics include Basic, Assembly and C language programming for robotic control; interfacing of indicators, switches, sensors and transducers; controlling motion and motors; monitoring and measurement of rotation; measuring light, temperature and conductance; application of navigation and measurement techniques; remote control applications; mechanical systems; and the control of frequency and sound. This course is not open to students who are enrolled in or have received credit for CEL 104 or ET 104. (F,S) (GR/P/NP)
EL 105 PC Care & Upgrade 3 units
Acceptable for credit: CSU
Necessary skills and information needed to make an informed purchase, maintain, upgrade, and evaluate personal computer systems. Students will receive hands-on instruction for performing basic preventive maintenance and the installation of simple upgrades such as adding RAM, installing hard drives, sound cards, etc. Included is the study of soldering techniques, electronic part identification and safety and system operation. Emphasis will be placed on the student's ability to keep personal computers running at their best performance levels. This course is not open to students who are enrolled in or have received credit for CS 105. (F,S) (GR/P/NP)

EL 106 Network Essentials 1 3 units
Acceptable for credit: CSU
Advisory: EL105 or CS 105 and either EL 125 or CS 141
First course in a series designed to provide students with knowledge of and laboratory experiences with current and emerging computer networking technology. Focus will be on LANs, WANs, OSI models, IP addressing, cabling, CompTIA Network+ and network standards; the theory behind the various kinds of network architectures and data transmission methods; and the use of decision-making and problem-solving techniques in applying science, mathematics and communication concepts to solve networking problems. Instruction and training are provided in the proper care, maintenance and use of networking software, tools and equipment. Emphasis will be placed on the Cisco System Certification. This course is not open to students who are enrolled in or have received credit for EL 106. (F,S) (GR/P/NP)

EL 107 Network Essentials 2 3 units
Acceptable for credit: CSU
Prerequisite: EL 106 or CS 106
Second course in a series designed to provide students with knowledge of and laboratory experiences with current and emerging computer networking technology. Focus will be on LANs, WANs, OSI models, IP addressing and router programming; and the theory behind the various kinds of network architectures and data transmission methods including network troubleshooting. Emphasis will be placed on the Cisco System Certification. This course is not open to students who are enrolled in or have received credit for EL 107 (F,S) (GR/P/NP)

EL 108 Network Essentials 3 2 units
Acceptable for credit: CSU
Prerequisite: EL 107 or CS 107
Third course in a series designed to provide students with knowledge of and laboratory experiences with current and emerging computer networking technology. Focus will be on LANs, WANs, OSI models, IP addressing and router programming; and the theory behind the various kinds of network architectures and data transmission methods. Emphasis will be placed on the Cisco System Certification. This course is not open to students who are enrolled in or have received credit for CS 107, or EL 108. (F,S) (GR/P/NP)

EL 109 Network Essentials 4 2 units
Acceptable for credit: CSU
Prerequisite: EL 108 or CS 108
The final course in a series designed to provide students with knowledge of and laboratory experiences with current and emerging computer networking technology. Focus will be on LANs, WANs, OSI models, IP addressing and router programming; and the theory behind the various kinds of network architectures and data transmission methods. Emphasis will be placed on the Cisco System Certification. This course is not open to students who are enrolled in or have received credit for CS 109. (F,S) (GR/P/NP)

EL 111 Fundamentals of DC Circuit Analysis 1.5 units
Acceptable for credit: CSU
Prerequisite: MATH 311.
Advisory: Concurrent enrollment in EL 112.
An introductory study of the nature of electricity, the processes employed in the analysis and documentation of DC electric circuits and the use of basic electronic testing instruments. Topics include current, voltage, resistance and power, Ohm's law, series and parallel resistive circuits, Kirchhoff's voltage and current laws, loading effects of meters and supplies, capacitors and inductors, RC and RL time constants, applications of Kirchhoff laws to multiple source and complex series-parallel circuits, determinants and matrices. Mesh analysis, Thévenin, Norton, superposition and maximum power transfer network theorems techniques are covered. This course is not open to students who are enrolled in or have received credit for EL 118. (F,S) (GR/P/NP)

EL 112 Fundamentals of DC Circuit Analysis Lab 1 unit
Acceptable for credit: CSU
Prerequisite: Completion of or concurrent enrollment in EL 111.
Provides the student with practical experiences for the comprehension of DC electrical concepts introduced in EL 111 and to present the proper use of electronic test instrumentation for the measurement of circuit parameters. Safety and troubleshooting concepts are presented in each laboratory assignment. (F,S) (GR/P/NP)

EL 113 Fundamentals of AC Circuit Analysis 1.5 units
Acceptable for credit: CSU
Prerequisite: Completion of or concurrent enrollment in EL 111.
Concurrent enrollment in EL 114.
An introductory study of the nature of electricity, the processes employed in the analysis and documentation of AC electric circuits. Topics include: AC current and voltage; sinusoidal waveforms; phasors and use of the J operator (complex numbers); reactance and admittance; RC, RL and RLC circuits; resonance; filters; circuit theorems in AC analysis; and the use of basic electronic testing instruments. (F,S) (GR/P/NP)

EL 114 Fundamentals of AC Circuit Analysis Lab 1 unit
Acceptable for credit: CSU
Prerequisite: EL 112 and completion of or concurrent enrollment in EL 113
Provides the student with practical experiences for the comprehension of AC electrical concepts introduced in EL 113 and to present the proper use of electronic test instrumentation for the measurement of circuit parameters. Safety and trouble shooting concepts are presented in each laboratory assignment. (F,S) (GR/P/NP)
EL 118 Fundamentals of Circuit Analysis  3 units
Acceptable for credit:  CSU
Prerequisite: MATH 311.
Corequisite: Concurrent enrollment in EL 112 and EL 114 or EL 119
An introductory study of the nature of electricity, the processes employed in the analysis and documentation of DC and AC electric circuits and the use of basic electronic testing instruments.  Topics include: current, voltage, resistance, admittance, resonance, Ohm’s law, series parallel and bridge resistive and reactive circuits, Kirchhoff’s voltage and current laws, loading effects of meters and supplies, capacitors, inductors, filters, RC and RL time constants, applications of Kirchhoff laws to multiple source-series-parallel circuits, complex numbers and network theorems.  This course is not open to students who are enrolled in or have received credit for EL 111 or EL 113.  (F,S)  (GR/P/NP)

EL 119 Fundamentals of DC & AC Circuits Analysis Lab  2 units
Acceptable for credit:  CSU
Prerequisite: Completion of or concurrent enrollment in EL 118.
Practical experience for the comprehension of DC and AC electrical concepts introduced in EL 118 and also presents the proper use of electronic test instrumentation for the measurement of circuit parameters.  (F,S)  (GR/P/NP)

EL 122 Electronic Devices & Circuits  3 units
Acceptable for credit:  CSU
Prerequisite: EL 113 and EL 114 or EL 118 and EL 119.
Advisory: Concurrent enrollment in EL 123
Introductory study of semiconductor devices and systems.  A detailed analysis of Diodes, BJT’s and FET’s, biasing techniques, active circuits, Thyristors and optoelectronic components and linear integrated circuits.  (F)  (GR)

EL 123 Electronic Devices & Circuits Lab  2 units
Acceptable for credit:  CSU
Prerequisite: EL 113 and EL 114 or EL 118 and EL 119 and completion of or concurrent enrollment in EL 122
Provides the opportunity for students to apply theoretical semiconductor concepts in a laboratory environment.  Major area of emphasis; Diodes, BJTs, FETs, Thyristers, optoelectronic devices and linear integrated circuits.  (F)  (GR)

EL 125 Digital Devices & Circuits  3 units
Acceptable for credit:  CSU
Prerequisite: EL 113 and EL 114 or EL 118 and EL 119
Advisory: Concurrent enrollment in EL 126
Study of modern logic devices, circuits and design techniques.  Emphasizing logic families, implementation of devices, combinational and sequential logic circuits, number systems and codes, A/D and D/A conversion, ALU’s, digital computer math techniques, memories and system design practices and troubleshooting.  (F,S)  (GR)

EL 126 Digital Devices & Circuits Lab  2 units
Acceptable for credit:  CSU
Prerequisite: EL 113 and EL 114 or EL 118 and EL 119 and completion of or concurrent enrolment in EL 125
Digital electronics laboratory designed to parallel Digital Devices and Circuits EL 125.  Emphasis in this lab course is placed on device operation in circuits and networks and the proper use of standard digital logic test instruments used in the process of troubleshooting and verifying proper circuit operation.  (F,S)  (GR)

EL 128 Renewable Energy  3 units
Acceptable for credit:  CSU
A study of the principles behind energy generation and conversion that can be applied to modern electrical, mechanical and chemical devices that use or produce power.  Special emphasis will be given to the study of electricity as a renewable energy source.  This course is not open to students who are enrolled in or have received credit for EL 128 or ET 128.  (A)  (GR/P/NP)

EL 131 PLCs & Industrial Control Design  3 units
Acceptable for credit:  CSU
Prerequisite: EL 125 or CS 141
A study of the purpose and operating features of a programmable logic controller (PLC).  Topics include PLC terminology, architecture, input/output modules, memory, commands for internal relays, on/off timers, up/down counters, use of subroutines, program control and math instructions.  Relay schematics, ladder logic diagrams and programming of logic controllers are emphasized.  Sensing devices and time-driven process sequences will be studied and integrated into control systems.  This course is not open to students who are enrolled in or have received credit for CEL 131 or ET 131.  (A)  (GR/P/NP)

EL 133 Mechatronic Systems 1  3 units
Acceptable for credit:  CSU
Prerequisite: ET 104 or CEL 104 or EL 104
This is a hands-on mechatronics systems course that focuses on the electromechanical concepts (mechanics, electronic and programming) of automated systems.  Emphasis is placed on how industrial grade sensors and transducers work and how they are interfaced into control systems.  Study topics include: transducers and sensors for light, heat, motion, pressure and position control; switching devices; input and output signal conditioning; continuous, closed-loop and proportional integral derivative process control; and safety.  (A)  (GR/P/NP)

EL 135 Electronic Measurement and Instrumentation Lab  2 units
Acceptable for credit:  CSU
Prerequisite: EL 122 and EL 123 and EL125 and EL126.
Corequisite: Electronics 135
This is a hands-on laboratory course that introduces students to the measurement of electrical quantities and the proper use of test equipment for measuring them.  The topics covered include AC and DC measurement of voltage and current, measurement of resistance, capacitance, inductance, frequency, phase angle, and power.  A specialized measuring instrument is introduced for each topic.  Laboratory exercises are conducted on the proper use of standard digital logic test instruments used in the process of troubleshooting and verifying proper circuit operation.  (F,S)  (GR)

EL 136 Electronic Measurement and Instrumentation Lab  2 units
Acceptable for credit:  CSU
Prerequisite: EL122 and EL 123 and EL 125 and EL 126
Corequisite: Electronics 135
Provides hand-on laboratory experience for the study and construction of electronic testing instruments.  The student is introduced to many different types of testing equipment currently used by the electronics industry.  (F)  (GR)
EL 139 Electrical Power, Motors & Controls 3 units
Acceptable for credit: CSU
Prerequisite: EL 122 and EL 125 or CS 141
A study of electronics, signal communication and power technology that support efficient manufacturing processes for various industries. Topics include motors, their drives and controls, power electronics, PLCs and communications networks used to monitor industrial processes. This course is not open to students who are enrolled in or have received credit for CEL 162 or ET 139. (A) (GR/P/NP)

EL 146 Electronic Product Design/Fabrication 2 units
Acceptable for credit: CSU
Prerequisite: EL 122 or EL 125
A study of product fabrication emphasizing mechatronic applications and designs. Topics include the design process; CADD drawings, schematics, diagrams and support graphic requirements; printed circuit board layout and population techniques; technical writing; project documentation requirements; surface mount technologies; prototyping; printed circuit board testing, troubleshooting; and final documentation emphasizing hands-on experiences. The use of industry standard computer aided drafting and support software will be studied and utilized in all phases of documentation through camera ready artwork. (S) (GR/P/NP)

EL 162 Fluid Power & Control 2 units
Acceptable for credit: CSU
An introduction to the generation, control and basic applications of hydraulics and pneumatics force and motion systems. Topics include safety, properties of and forces in liquids, pumps, motors, valves, reservoirs, strainers, filters, accumulators, basic diagramming, system design and troubleshooting. This course is not open to students who are enrolled in or have received credit for CEL 162 or ET 162. (A) (GR/P/NP)

EL 179, 379 Experimental Courses in Electronics 0.5 to 10 units
179 - Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

EL 189 Independent Projects in Electronics 1 to 3 units
189 - Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

EL 399 Special Topics in Electronics 0.5 to 3 units
For course description, see "Special Topics"

EL 320 A+ Certification 2 units
Advisory: EL 105 or CS 105
Computer repair and maintenance with a focus on preparations required for achieving the industry standard CompTIA A+ Certification. The hands-on study includes the A+ Core Test Domains and the Windows/DOS Test Domains. This course is not open to students who are enrolled in or have received credit for CS 320. (F,S) (GR/P/NP)

EL 332 Wireless Network Administrator 3 units
A study of the basic concepts and technologies of wireless data networking. Includes basic RF theory, WiFi infrastructure, link budget math, troubleshooting techniques, site survey skills and security measures. Prepares students to take the CWNA Certification Exam at Prometric Testing Centers. This course is not open to students who are enrolled in or have received credit for CS 332. (A) (GR/P/NP)

EL 333 Intro to Network Security 2 units
Prerequisites: EL 106 or CS 106
A comprehensive overview of network security. General security concepts, communications security, infrastructure security, basics of cryptography and operational/organizational security will be covered. Prepares students to take the CompTIA Security+ Certification Exam at Prometric or Vue sites. This course is not open to students who are enrolled in or have received credit for Computer Science 333. (F,S) (GR/P/NP)

EMERGENCY MEDICAL SERVICES

EMS 102 First Aid & Safety 3 units
Acceptable for credit: CSU, UC
This course provides American Red Cross first aid and CPR "layperson" training as a citizen responder in addition to providing FEMA’s Community Emergency Response Team (CERT) training that will prepare the student to deliver basic emergency care during a disaster prior to the arrival of professional emergency responders. Upon successful completion of the course, the student will receive an American Red Cross first aid and layperson level CPR card as well as a FEMA CERT certificate of completion. This course is not open to students who have received credit for Physical Education 102. (F,S,UU) (GR/P/NP)

EMS 130 Principles of Emergency Management 3 units
Acceptable for credit: CSU
An introduction to the fundamentals of the emergency management system. Topics include the four phases of the emergency management cycle, community-focused hazard analysis and the connection between planning and emergency management. This course is not open to students who have completed or who are enrolled in FT 130. (F,S, U) (GR)

EMS 134 Internship Seminar 1 unit
Acceptable for credit: CSU; UC-DAT
Corequisite: EMS 149 or CWE 149
Provides students with a seminar format to discuss, analyze and critically evaluate their work-based learning experiences. This forum emphasizes job market information, attitudes and abilities that facilitate job success; skills necessary for maintaining employment and techniques for enhancing job advancement opportunities. (F,S) (GR)

EMS 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see "Cooperative Work Experience: Occupational."
EMS 300 Intro to Emergency Medical Services 0.5 unit
Advisory: Completion of or concurrent enrollment in ENGL 514 or equivalent
An exploration of the academic and interpersonal expectations required for successful completion of an entry-level EMS academy training program. This course is a prerequisite to EMS 301. (F,S) (GR)

EMS 301 EMS Academy 1A (EMT) 5 units
Course may be repeated 99 times.
Prerequisite: Completion of or concurrent enrolment in EMS 300 and EMS 306
Advisory: Completion of or concurrent enrollment in ENGL 514 or equivalent.
This beginning-level academy module meets and exceeds the U.S. Department of Transportation EMT National Standard Curriculum for students desiring eligibility for certification as an EMT in the state of California. State certification as an EMT is mandated as the minimum level of emergency medical training required to work on any ambulance and for most fire departments. A uniform and other related material will be required. Enrollment is done through an application process. This course may be repeated as often as necessary for the purpose of recertification. (F,S,U) (GR)

EMS 302 EMS Academy 1B (Advanced) 7 units
Prerequisite: Emergency Medical Technician 1 Basic Certification or concurrent enrollment in EMS 301
Corequisite: LE 341, ENVT 156
Advisory: Completion of or concurrent enrollment in ENGL 514 or equivalent
This advanced academy module prepares the student to apply and expand upon those basic EMT skills introduced in the beginning academy module. Topics include: communication and leadership skills, emergency vehicle operations and driving, patient handling and packaging, assisting paramedic partners, street survival issues, automobile extrication, rope rescue, helicopter safety, hazardous materials, preparing to apply for jobs in related field, medical- and trauma-based scenarios and physical fitness and agility training. An academy uniform, gym suit and related materials will be required. (F,S) (GR)

EMS 303 Paramedic Prep 1.5 units
Designed to prepare students for paramedic study. Topics include the structure and function of the human body as it applies to paramedic-level training. (F,S) (P/NP)

EMS 304 EMT Clinical Experience 1.5 units
Prerequisite: EMS 301
Reinforces basic life support emergency medical services skills using a combination of clinical and field experience, classroom instruction and assisting in college's emergency medical services training program. Fulfills 24 hours of CEUs towards EMT-1 recertification. (S,U) (GR/P/NP)

EMS 306 CPR for Healthcare Providers 0.5 unit
Course may be repeated 98 times.
Instruction for health care professionals on cardiopulmonary resuscitation (CPR) and automated external defibrillation techniques according to the current American Heart Association standards. Students successfully completing this course are eligible to purchase an optional American Heart Association Healthcare CPR card. This course may be repeated as necessary to maintain certification. (F,S) (GR)

EMS 307 Wilderness First Aid & Survival 2 units
Prepares the student to recognize and treat medical emergencies unique to a wilderness or disaster environment. Emphasizes first aid skills and improvisation of emergency equipment. Recommended for emergency responders, outdoor enthusiasts, hikers and hunters. CEUs for EMT-1 and paramedic are available. (F,S) (P/NP)

EMS 309 Basic Trauma Life Support 1 unit
Course may be repeated 99 times.
Presents basic and advanced prehospital concepts and skills including rapid assessment of the critical trauma patient, treatment for shock and hypoxemia and rapid transport. BTLS certification and 16 hours of CEUs for Emergency Medical Technicians-1, paramedics and registered nurses. (F,S) (GR/P/NP)

EMS 310 Child Care First Aid & CPR 0.5 unit
Presents American Red Cross skills necessary to respond to breathing and cardiac emergencies. Pediatric first aid and injury prevention are also covered. The course meets CCR Title 22/CA EMSA requirements for child care providers. Upon successful completion, students will receive an American Red Cross certification in Adult, Infant, Child CPR (valid for one year) and a CA Child Care First Aid certificate (valid for two years). (F,S) (GR/P/NP)

EMS 313 Intermediate ICS 1st Responders 1 unit
A study of the organizational elements within each section of the ICS, staffing considerations and reporting relationships. This course meets the standards for the Department of Homeland Security for command and general staff and operational first responders. This course is not open to students who have completed or who are enrolled in WFT 303. (F,S) (GR/P/NP)

EMS 314 Adv ICS 1st Responders ICS-400 1 unit
A study of Incident Command System relationships and duties of command staff members, agency representatives and activation of the command and general staff positions. This course meets the standards for the Department of Homeland Security for command and general staff and operational first responders. This course is not open to students who have completed or who are enrolled in WFT 304. (F,S) (GR/P/NP)

EMS 315 Ambulance Strike Team Provider 1 unit
Designed to prepare emergency responders to effectively manage a multi-casualty incident (MCI) utilizing the incident command system. This course is not open to students who have completed EMS 359 Ambulance Strike Team Provider. (F,S) (P/NP)

EMS 316 Ambulance Strike Team Leader 1 unit
Prerequisite: Completion of application process
Corequisite: WFT 301 and WFT 302
Advisory: WFT 303 and ENVT 156
Designed to prepare leaders in the ambulance profession (fire-based and non-fire based) for the role of ambulance strike team (AST) leader. This course is not open to students who have received credit for EMS 359 - Ambulance Strike Team Leader. (F,S) (P/NP)

EMS 319 Emergency Response to Terrorism 3 units
Enables emergency responders to recognize circumstances and key indicators that may signify a terrorist incident or threat potential. Topics include implementing incident
command, self-protective measures, scene security, force protection and defensive measures associated with biological, nuclear, incendiary, chemical and explosives incidents. Materials and information relevant to current events on emergency preparedness in terrorist incident management for emergency responders of all disciplines are explored. This course is not open to students who are enrolled in or have received credit for FT 319. (A) (GR/P/NP)

EMS 320 Response to HazMat Incidents 2 units
This course meets the requirements for the State of California CSTI hazardous materials First Responder - Awareness certification and the NFPA 473 standards for a Level 1 EMS responder to hazardous material incidents. Course can be used to meet CEU requirements. (F,S) (GR/P/NP)

EMS 321 Advanced Cardiac Life Support 1 unit
Course may be repeated 99 times.
Provides advanced cardiac life support care. Includes American Heart Association ACLS certification and 16 hours for CEUs for EMT-1, paramedics and registered nurses. (S,U) (GR/P/NP)

EMS 322 Pediatric Advanced Life Support 1 unit
Course may be repeated 99 times.
Covers pediatric advanced cardiac life support care. Includes American Heart Association PALS certification and 16 hours of CEUs for EMT-1, paramedics and registered nurses. (S,U) (GR/P/NP)

EMS 325 Lifeguard Certification 2 units
Course may be repeated 99 times.
Limitation on enrollment: American Red Cross requirements for swimming proficiency.
Instruction in the American Red Cross lifeguard training techniques, first aid and CPR skills required to become a poolside or water park lifeguard. Upon successful completion, a student will earn certifications in both American Red Cross Lifeguard Training and CPR for the Professional Rescuer. May be repeated as necessary to maintain certification. (S) (GR/P/NP)

EMS 328 Wilderness EMS-Wilderness Travel 1.5 units
An introduction to safe and effective wilderness travel for recreational backpackers as well as emergency response personnel responding to rescue situations in remote/wilderness areas. (F,S) (GR/P/NP)

EMS 333 Paramedic Theory 10 units
Prerequisite: EMS 302 or Current California EMT-1 (Basic ) certification. EMS 303, plus a minimum of six months verified experience as an EMT-1 (Basic) responding to emergency medical responses within the past two years. Advanced life support training in the emergency medical services career structure covering all techniques of anatomy and physiology. Includes cardiovascular, respiratory, pediatric, OB/GYN and traumatic emergency training. This course meets 320 hours of the 1,032 hours required to complete paramedic training in the State of California. Course content is based on the guidelines and authority of Title 22, Division 9, of the California Code of Regulations and the U.S. Department of Transportation Emergency Medical Technician-Basic Standard National Curriculum. (F) (GR)

EMS 337 Wilderness EMS Aircraft 2 units
A study of the basic skills required to perform safe and effective aircraft search techniques during search and rescue operations in a wilderness or remote location. Sixteen hours of CEUs for Emergency Medical Technicians-1 and paramedics are available. (F,S) (GR/P/NP)

EMS 338 Land Navigation 1.5 units
A study of mapping and GPS skills as applied to fire, hazmat and EMS emergency response. Emphasizes interpreting topographic maps and use of both the compass and GPS device. This course is not open to students who are enrolled in or have received credit for FT 338 or ENVT 338. (F,S) (GR/P/NP)

EMS 343 Paramedic Clinical Laboratory 7.5 units
Prerequisite: EMS 333, current CPR certification for health care provider or professional rescuer
The second phase of paramedic training designed to provide supervised clinical application of cognitive knowledge and skills in acute patient care area for the paramedic student. Opportunities for increasing depth of skill performance and presentation of more advanced skills are provided. (F) (GR)

EMS 347 Search & Rescue Management 2 units
A study of the basic skills needed to effectively manage a wilderness/remote area search and rescue operation. (F,S) (GR/P/NP)

EMS 350 Essentials of Search & Rescue 3 units
Presents essential skills required for safe and effective search and rescue (SAR) operations conducted by SAR, emergency medical and law enforcement personnel responding in wilderness and remote areas. Includes scope and responsibility of SAR field personnel, responding safely to wilderness and remote environments, lost person behaviors, tracking and working with K-9 search teams. Includes 16 hours of CEU’s for EMT-1 and paramedics. (S) (GR/P/NP)

EMS 353 Paramedic Field Internship 10 units
Prerequisite: EMS 343, current CPR certification for health care provider or professional rescuer
The third and final phase of paramedic training allows the student to be assigned to an emergency response vehicle with a field preceptor to establish advanced life support patient care responsibilities. Each student must have a minimum of (40) advanced life support contacts during this course. Upon successful completion of this phase of training, the student will become eligible for state certification as an Emergency Medical Technician-Paramedic. (S) (GR)

EMS 360 Man Tracking 1 0.5 unit
Develops basic tracking techniques and skills for search and rescue, law enforcement and emergency medical personnel operating in wilderness and remote areas. Includes tracking and sign cutting techniques, tracking equipment, team makeup, maps and GPS use. POST certified and eight hours of CEU's for EMT-1 and paramedics are available. (S) (GR/P/NP)

EMS 362 Man Tracking 2 0.5 unit
Develops tracking techniques and skills for search and rescue, law enforcement and emergency medical personnel operating in rural, wilderness and remote areas. Includes clue preservation, collecting evidence, clue recognition and classification of footwear. POST certified and eight hours of CEUs for EMT-1 and paramedics are available. (S) (GR/P/NP)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 378 EMT Wilderness Transition</td>
<td>2.5 units</td>
<td></td>
<td>Pre requisite: Current EMT-1 certification and professional rescuer or health care provider CPR certification.</td>
</tr>
<tr>
<td>EMS 388 Searching with K-9 Teams</td>
<td>2.5 units</td>
<td></td>
<td>Prepares the certified emergency medical technician (EMT) to recognize and treat medical emergencies unique to wilderness and remote environments. Additionally, basic wilderness survival techniques and equipment improvisation training are provided. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>EMS 401 EMT 1 (Basic) Refresher</td>
<td>1.5 units</td>
<td></td>
<td>Course may be repeated 99 times. Prerequisite: EMT-1 Basic Certification within the past four years.</td>
</tr>
<tr>
<td>EMS 407 Wilderness 1st Aid Refresher</td>
<td>0.5 unit</td>
<td></td>
<td>Course may be repeated 99 times. Prerequisite: EMS 307 Satisfies the requirements set forth by Title 22, Division 9, of the California Code of Regulations for Emergency Medical Technician 1 (Basic) refresher training. May be repeated as necessary for the purposes of certification. (GR)</td>
</tr>
<tr>
<td>EMS 408 Disaster Survival &amp; Preparedness</td>
<td>0.5 unit</td>
<td></td>
<td>A study of essential skills for self-sufficiency during and after catastrophic disasters. Trains community members to function as part of a rescue team as leaders of on-scene volunteers. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>EMS 409 PHTLS Refresher</td>
<td>0.5 unit</td>
<td></td>
<td>Course may be repeated 99 times. Prerequisite: Current PHTLS certification. Review of prehospital trauma life support basic and advanced concepts and skills. Student receives PHTLS recertification, and eight hours of CEUs for EMT-1, paramedics and registered nurses are available. May be repeated as necessary to maintain certification. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>EMS 410 EMT 1 Basic Skills Refresher Module A</td>
<td>0.5 unit</td>
<td></td>
<td>Course may be repeated 99 times. A review of anatomy, physiology and medical legal issues for EMT personnel. Satisfies the requirements set forth by Title 22, Division 9, of the California Code of Regulations for Emergency Medical Services. This course may be repeated as necessary for the purposes of certification. (F,S) (P/NP)</td>
</tr>
<tr>
<td>EMS 411 EMT 1 Basic Skills Refresher Module B</td>
<td>0.5 unit</td>
<td></td>
<td>Course may be repeated 99 times. A review of scene size-up, patient assessment and medical emergencies. Satisfies the requirements set forth by Title 22, Division 9, of the California Code of Regulations for Emergency Medical Services. This course may be repeated as often as necessary for the purposes of certification. (F,S) (P/NP)</td>
</tr>
<tr>
<td>EMS 412 EMT 1 Basic Skills Refresher Module C</td>
<td>0.5 unit</td>
<td></td>
<td>Course may be repeated 99 times. A review of environmental emergencies and trauma. Satisfies the requirements set forth by Title 22, Division 9, of the California Code of Regulations for Emergency Medical Services. This course may be repeated as necessary for the purposes of certification. (F,S) (P/NP)</td>
</tr>
<tr>
<td>EMS 413 EMT 1 Basic Skills Refresher Module D</td>
<td>0.5 unit</td>
<td></td>
<td>Course may be repeated 99 times. Prerequisite: EMS 410, EMS 411 and EMS 412 A review of didactic and manipulative skills required for EMT-1 Basic recertification. Satisfies the requirements set forth by Title 22, Division 9, of the California Code of Regulations for Emergency Medical Services. This course may be repeated as necessary for the purposes of certification. (F,S) (P/NP)</td>
</tr>
<tr>
<td>EMS 414 ACLS Refresher</td>
<td>0.5 unit</td>
<td></td>
<td>Course may be repeated 99 times. Prerequisite: Current American Heart Association ACLS Certification. Review of cardiac life support care. Student receives American Heart Association ACLS recertification, and eight hours of CEUs for EMT-1, paramedics and registered nurses are available. May be repeated as necessary to maintain certification. (S,U) (GR/P/NP)</td>
</tr>
<tr>
<td>EMS 415 PALS Refresher</td>
<td>0.5 unit</td>
<td></td>
<td>Course may be repeated 99 times. Prerequisite: Current American Heart Association PALS Certification. Review of pediatric advanced life support care. Student receives American Heart Association PALS recertification, and eight hours of CEUs for EMT-1, paramedics and registered nurses are available. May be repeated as necessary to maintain certification. (S,U) (GR/P/NP)</td>
</tr>
<tr>
<td>EMS 416 Child Care First Aid &amp; CPR Refresher</td>
<td>0.5 unit</td>
<td></td>
<td>Course may be repeated 99 times. Prerequisite: Valid Red Cross child care first aid and CPR certification. Review of child care first aid and CPR necessary to meet the CCR Title 22/CA EMSA requirements for child care providers. May be repeated as necessary to maintain certification. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>EMS 461 Medical First Responder Update</td>
<td>0.5 unit</td>
<td></td>
<td>Course may be repeated 99 times. Prerequisite: Completion of or concurrent enrollment in EMS 399 First Responder Medical or WFT 302 Refresher training for first responders to meet CCR, Title 22 mandated training requirements in basic patient care and stabilization at medical emergencies. This course may be repeated as necessary for the purposes of certification. (S,U) (GR/P/NP)</td>
</tr>
</tbody>
</table>
## ENGINEERING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Credit Acceptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 100</td>
<td>Introduction to Engineering</td>
<td>1</td>
<td>An overview of the engineering profession and educational path.</td>
<td>ENGL 514 or EL 515</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>ENGR 124</td>
<td>Excel in Science/Engineering</td>
<td>1</td>
<td>An introduction to Excel.</td>
<td>MATH 181</td>
<td>CSU</td>
</tr>
<tr>
<td>ENGR 126</td>
<td>Matlab for Science/Engineering</td>
<td>1</td>
<td>An introduction to Matlab.</td>
<td>MATH 181</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>ENGR 134</td>
<td>Internship Seminar</td>
<td>1</td>
<td>Provides students with a seminar format to discuss.</td>
<td>ENGR 149</td>
<td>CSU, UC-DAT</td>
</tr>
<tr>
<td>ENGR 149</td>
<td>Cooperative Work Experience: Occupational</td>
<td>1</td>
<td>Course may be repeated.</td>
<td>ENGR 152</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>ENGR 152</td>
<td>Statics</td>
<td>3</td>
<td>An analysis of forces on engineering structures in equilibrium.</td>
<td>MATH 182</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>ENGR 154</td>
<td>Dynamics</td>
<td>3</td>
<td>An analytical study of the motions of particles and rigid bodies.</td>
<td>ENGR 152, MATH 182</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>ENGR 156</td>
<td>Strength of Materials</td>
<td>4</td>
<td>A study of the stresses, strains, and deformations associated with axial, torsional, and flexural</td>
<td>ENGR 152</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>ENGR 161</td>
<td>Materials Science</td>
<td>3</td>
<td>An introduction to atomic bonding, crystalline structure and microstructure.</td>
<td>PHYS 161</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>ENGR 162</td>
<td>Materials Science Lab</td>
<td>1</td>
<td>Laboratory to parallel ENGR 161. Experiments investigating crystalline structures.</td>
<td>ENGR 161</td>
<td>CSU, UC-DAT</td>
</tr>
<tr>
<td>ENGR 170</td>
<td>Electric Circuit Analysis</td>
<td>3</td>
<td>Basic circuit analysis.</td>
<td>MATH 182, PHYS 161</td>
<td>CSU, UC</td>
</tr>
</tbody>
</table>

Advisory: Concurrent enrollment in applicable classes.
ENGR 171 Electric Circuit Lab  1 unit
Acceptable for credit:  CSU, UC
Prerequisite: MATH 182 and PHYS 161.
Corequisite:  ENGR 170 or prior completion of ENGR 170.
Designed to parallel ENGR 170. Experimental verification of
circuit analysis concepts. Laboratory exercises include DC,
transient and AC measurements on circuits including
resistors, capacitors, inductors and operational amplifiers.
Basic electrical instrumentation is used. The associated
lecture course (ENGR 170) should be taken concurrently.
(F)  (GR)

ENGR 172 Circuits & Devices  4 units
Acceptable for credit:  CSU, UC
Prerequisite: ENGR 170 and ENGR 171.
Corequisite: ENGR 173.
A continuation of circuit analysis and an introduction to
electronic devices. Topics include three phase circuits;
frequency response; Laplace transforms and applications;
Fourier series and Fourier transform; two-port networks;
magnetically coupled circuits and transformers; semi-
conductor physics; characteristics and models of diodes;
bipolar junction transistors and field effect transistors; as well
as biasing and small signal response of transistors.
(S)  (GR)

ENGR 173 Circuits & Devices Lab  1 unit
Acceptable for credit:  CSU, UC
Prerequisite: ENGR 170 and ENGR 171
Corequisite: ENGR 172.
Designed to parallel ENGR 172. Includes investigation and
design of active filters, analysis of two-port networks and
transformer circuits, as well as experiments with rectifiers
and DC and small signal response of transistor circuits.
(S)  (GR)

ENGR 189 Independent Projects in Engineering  1 to 3 units
Acceptable for credit:  CSU, UC-DAT
For course description, see "Independent Projects."

ENGR 199, 399 Special Topics in Engineering  0.5 to 10 units
For course description, see “Special Topics”

ENGR 170 Computer-Aided Drafting  3 units
Acceptable for credit:  CSU, UC
An introduction to computer-aided drafting and design
(CADD) which covers operation of a computer graphics
terminal (specifically AutoCAD) to create, modify, delete,
transfer and plot graphic files used to produce complete
engineering drawings.  (F,S)  (GR/P/NP)

ENGR 104 Intro to Robotics & Mechatronics  3 units
Acceptable for credit:  CSU
An introduction to robotic control applications. Basic
electronics, including digital, analog and microcontroller
devices, sensors and transducers, and actuators will be
emphasized for automation control. Topics include Basic,
Assembly and C language programming for robotic control;
interfacing of indicators, switches, sensors and transducers;
controlling motion and motors; monitoring and measurement
of rotation; measuring light, temperature and conductance;
application of navigation and measurement techniques;
remote control applications; mechanical systems; and the
control of frequency and sound. This course is not open to
students who are enrolled in or have received credit for
CEL 104 or EL 104.  (F,S)  (GR/P/NP)

ET 128 Intro to Renewable Energy  3 units
Acceptable for credit:  CSU
A study of the principles behind energy generation and
conversion that can be applied to modern electrical,
mechanical and chemical devices that use or produce
power. Special emphasis will be given to the study of
electricity as a renewable energy source. This course is not
open to students who are enrolled in or have received credit
for CEL 128 or EL 128.  (A)  (GR/P/NP)

ET 131 PLCs & Industrial Control Design  3 units
Acceptable for credit:  CSU
Prerequisite: EL 125 or CS 141
A study of the purpose and operating features of a
programmable logic controller (PLC). Topics include PLC
terminology, architecture, input/output modules, memory,
commands for internal relays, on/off timers, up/down
counters, use of subroutines, program control and math
instructions. Relay schematics, ladder logic diagrams and
programming of logic controllers are emphasized. Sensing
device and time-driven process sequences will be studied
and integrated into control systems. This course is not open
to students who are enrolled in or have received credit
for CEL 131 or EL 131. (A)  (GR/P/NP)

ET 133 Mechatronic Systems 1  3 units
Acceptable for credit:  CSU
Prerequisite: ET 104 or CEL 104 or EL 104
A study with hands-on application of the mechanical
engineering, electronics, computer programming and
electromechanical concepts (mechatronics) in the production
of goods and services. Emphasis is on how a wide variety of
technical elements fit into industrial applications. Topics
include transducers and sensors for light, heat, motion,
pressure and position control; switching devices; input and
output signal conditioning; continuous, closed-loop and
proportional integral derivative process control; and safety.
This course is not open to student who are enrolled in or
have received credit for CEL 133 or EL 133.  (A)  (GR/P/NP)

ET 139 Electrical Power, Motors & Controls  3 units
Acceptable for credit:  CSU
Prerequisite: EL 122 and EL125 or CS 141
A study of electronics, signal communication and power
technology that support efficient manufacturing processes
for various industries. Topics include motors, their drives
and controls, power electronics, PLCs and communications
networks used to monitor industrial processes. This course
is not open to students who are enrolled in or have received
credit for CEL 139 or EL 139.  (A)  (GR/P/NP)

ET 140 Engineering Drawing  3 units
Acceptable for credit:  CSU
Prerequisite: ET 100
The principles and application of engineering drawing,
including orthographic projections, freehand sketching,
pictorial drawings, engineering lettering, dimensioning,
sections, auxiliary, surface finish, standard and geometric
tolerancing, threads and fasteners are the core of this
course. A computer aided drafting system (CADD) will be used extensively by the student to complete the requirements of this course. (F,S) (GR/P/NP)

ET 145 Advanced Engineering Drawing  3 units
Acceptable for credit:  CSU
Prerequisite: ET 140
Use of advanced technical drawing techniques on a CADD system to solve design component problems requiring details and assemblies. The course covers freehand sketching to develop ideas, fabrication and working drawings dimensioned to ANSI standards, including tolerances, title blocks, change orders, symbols and notes. Use of handbooks, ordinances, codes, selection of hardware and materials will be incorporated in each student's individual project. (F,S) (GR/P/NP)

ET 160 Digital Tools for Architecture  3 units
Acceptable for credit:  CSU
Advisory: ARCH 111
Introduces computer design and presentation skills for architecture students. Topics include image editing, page layout and 3D modeling. This course is not open to students who are enrolled in or have received credit for ARCH 160. (A) (GR/P/NP)

ET 162 Fluid Power & Control  2 units
Acceptable for credit:  CSU
An introduction to the generation, control and basic applications of hydraulics and pneumatics force and motion systems. Topics include safety, properties of and forces in liquids, pumps, motors, valves, reservoirs, strainers, filters, accumulators, basic diagramming, system design and troubleshooting. This course is not open to students who are enrolled in or have received credit for CEL 162 or EL 162. (A) (GR/P/NP)

ET 189, 389 Independent Projects in Engineering Technology  1 to 3 units
189 - Acceptable for credit:  CSU, UC-DAT
For course description, see "Independent Projects."

ET 199, 399 Special Topics in Engineering Technology  0.5 to 10 units
199 - Acceptable for credit:  CSU, UC-DAT
For course description, see “Special Topics.”

ET 330 Print Reading & Interpretation  3 units
Prepares students to read engineering drawings and specifications and to enable them to understand the intent of the engineer by interpreting the relationship of two-dimensional drawings with respect to actual objects or projects. This course is not open to students who are enrolled in or have received credit for AT 330 or AB 330 or MT 330. (A) (GR/P/NP)

ET 381 Industrial Mathematics  3 units
Advisory: Eligibility for MATH 511
Designed as the basic mathematics class for the industrial and engineering technology student wishing to gain proficiency in the applications of mathematics to practical situations, including percentage, area, volume, speed ratios of equipment, horsepower and the essentials of plane trigonometry. This course is not open to students who are enrolled in or have received credit for AB 381 or AT 381 or MT 381 or WLDT 381. (A) (GR)

ENGL 100 Writing in Career/Tech Fields  4 units
Acceptable for credit:  CSU
Prerequisite: A recommended placement based on the START process or satisfactory completion of ENGL 514
A writing course designed primarily to meet the needs of students pursuing career and technical programs. Readings will be drawn from the disciplines involved so that students master comprehension and critical reading skills in real-world texts. Writing assignments and projects will similarly be based upon the types of critical thinking and analytical writing required in the students' fields of study. Research methods and skills will be emphasized. Meets the written composition graduation requirement for an AHC associate degree. Students who plan to transfer to a four-year institution will need to take ENGL 101 instead of this course to meet the university's first-year composition requirement. (F,S) (GR)

ENGL 101 Freshman Comp: Exposition  4 units
Acceptable for credit:  CSU, UC
Prerequisite: A recommended placement based on the START process or satisfactory completion of ENGL 514
Designed to help students enhance their analytical reading and writing skills using a wide variety of texts. Emphasis is on college-level expository essay construction, communication and research methods, leading to the preparation and writing of a research paper. (F,S,U) (GR)

ENGL 102 Freshman Comp: Literature  3 units
Acceptable for credit:  CSU, UC
Prerequisite: ENGL 101
Introduces the student to the three major types of creative literature: fiction, drama and poetry, with a view to developing greater critical awareness and polishing the writing skills acquired in ENGL 101. (F,S,U) (GR)

ENGL 103 Critical Thinking & Comp  3 units
Acceptable for credit:  CSU, UC
Prerequisite: ENGL 101
Designed to fulfill the critical thinking requirement of the Intersegmental General Education Transfer Curriculum. Students will develop critical thinking and reading skills, focusing upon induction, deduction, logical fallacies and close textual analysis. Emphasizes skills application through writing a sequence of argumentative essays. (F,S,U) (GR)

ENGL 104 Technical Writing  3 units
Acceptable for credit:  CSU
Prerequisite: ENGL 101
Develops written communication skills for industrial, scientific and technical fields. Emphasis is placed upon audience analysis; technical formats such as reports, summaries and proposals; collaborative problem solving; research skills; clarity and conciseness of expression. (F,S,U) (GR)

ENGL 105 Language & Culture  3 units
Acceptable for credit:  CSU, UC
An introduction to the study of language and communication in relation to culture. Focus is on the structure, function and history of language as well as the social, symbolic and practical uses of language. Linguistic concepts, methodologies and theoretical assumptions will be explored.
This course examines the genre of fiction and the technical skills needed to produce quality student writing. Emphasis is on the structural and aesthetic features of fiction in a workshop-formatted course. Students will read, critique and create literary fiction. (F,S) (GR)

ENGL 116 Writing Poetry 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
Advisory: ENGL 106
This course examines the genre of poetry and the technical skills needed to produce quality student writing. Emphasis is on the structural and aesthetic features of poetry in a workshop-formatted course. Students will read, critique and create literary poetry. (F,S) (GR)

ENGL 131 20th Century American Literature 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
Surveys American writers of the 20th century, particularly Frost, Eliot, Fitzgerald, Hemingway and Faulkner. Either one or both semesters of American Literature partially fulfill the humanities requirement of the California State Colleges and Universities. ENGL 130 is not a prerequisite to this course. (S,U) (GR/P/NP)

ENGL 132 Literature & Film 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
Techniques of literary and film criticism and application of those techniques to films and the literary works which inspired them. Emphasis is given to the critical analysis of the transformations that occur when literary forms are adapted for the screen. (F) (GR/P/NP)

ENGL 133 Modern Fiction 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
Designed to increase student understanding and enjoyment of modern fiction through a study of selected works by 20th century authors. Selections may vary from semester to semester. ENGL 133 has no geographical boundaries, but includes works by American and English authors, as well as works in translation. (S) (GR/P/NP)

ENGL 134 The Bible as Literature 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
An examination of literary type, style, language and form in the Bible – wisdom literature, the poetry, prophetic writings, legal collections, apocalyptic literature, letters and the Gospels. Attention will be given to patterns, character, language and messages that have influenced western literature and culture. (F,S) (GR/P/NP)
ENGL 135 Introduction to Poetry 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
Introduces the study of poetry with emphasis on appreciation, understanding and interpretation through a critical examination of a variety of poets and poems. (S) (GR/P/NP)

ENGL 137 Children's Literature 3 units
Acceptable for credit: CSU
Prerequisite: Eligibility for ENGL 514
A study of poetry, folk and fairy tales, fiction, nonfiction and realistic works for children. Emphasis is on exploring modes for bringing this literature to child audiences. (F,S,U) (GR/P/NP)

ENGL 138 Introduction to Shakespeare 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
Introduction to Shakespeare in which a number of major works are read, with close attention to language, structure and historical content. (F) (GR/P/NP)

ENGL 139 Ideas of Difference in Literature 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
Primarily through the study of literature, an exploration of the ways in which ideas about race, ethnicity, gender, sexuality, class and disability have shaped American identities and influenced the course of 20th century American cultural history. Emphasizes contemporary American cultural texts (novel, autobiography, poetry, journalism and/or drama; film and/or documentary); lectures and other class materials will link contemporary culture to pertinent historical themes or developments. (F) (GR/P/NP)

ENGL 144 Ancient Literature 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
An examination of the ancient epics and classical literature of Mesopotamia, Greece and Rome. Representative readings will include the Epic of Gilgamesh, The Iliad, The Odyssey, Genesis, Antigone, The Aeneid, and Marcus Aurelius Meditations. (F) (GR/P/NP)

ENGL 145 English Literature to 1800 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
A study of the major British writers in the 14th century to the beginning of the Romantic Period around 1800. The course covers the major works of such writers as Chaucer, Shakespeare and Milton, with emphasis on their continuing capacity to talk to us today. (F) (GR/P/NP)

ENGL 146 English Literature 1800 to Present 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
A study of the major British writers since 1800. The course covers selected plays, novels, poems and essays from the outstanding writers of the Romantic and Victorian periods and of the 20th century, including Wordsworth, Shelley, Keats, Browning, Shaw, Yeats and Eliot. (S) (GR/P/NP)

ENGL 148 Hispanic Literature in Translation 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
An introduction to Hispanic literature as translated into English, focusing on the themes and symbols characteristic of such literature. Cultural differences will be explored. Students will read works both critically and analytically. This course is not open to students who are enrolled in or have received credit for Spanish 148. (GR)

ENGL 179, 379 Experimental Courses in English 0.5 to 10 units
179 - Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

ENGL 189 Independent Projects in English 1 to 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

ENGL 199, 399 Special Topics in English 0.5 to 3 units
199 - Acceptable for Credit: CSU, UC
For course description, see “Special Topics”

ENGL 306 Writing Laboratory 0.5 unit
Course may be repeated three times.
Corequisite: Enrollment in any Allan Hancock College credit course.
Provides students with individualized writing practice with computer-assisted strategies. Not open to students enrolled in ENGL 511, 512, 513 or 514. (F,S,U) (P/NP)

ENGL 511 Writing Skills 1 4 units
Prerequisite: Recommended placement based on the START process.
This course provides instruction in basic writing, reading, sentence and vocabulary skills. It is designed for students whose skills have been assessed at four levels below transfer, based on the statewide CB21 Coding of English courses sponsored by the Basic Skills Initiative. In this course, students summarize and respond to text, compose and develop paragraphs, explore basic sentence patterns and increase vocabulary. Successful completion of this course advances students into Writing Skills 2. (F,S,U) (P/NP)

ENGL 512 Writing Skills 2 4 units
Prerequisite: Recommended placement based on the START process or successful completion of ENGL 511. Advisory: READ 510
This course provides instruction in basic writing, reading, language, and critical thinking skills. It is designed for students whose skills have been assessed at three levels below transfer, based on the statewide CB21 Coding of English courses sponsored by the Basic Skills Initiative. In this course, students identify key parts of a text, apply the writing process to assignments and proofread for errors in their writing. (F,S) (P/NP)
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<tr>
<th>Course</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Description</th>
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<tbody>
<tr>
<td>ENGL 513 Writing Skills 3</td>
<td>4</td>
<td>Recommended placement based on the ESL START process.</td>
<td>This course provides instruction in basic writing, reading, sentence, and vocabulary skills. It emphasizes writing as a process and the relationship between reading and writing skills in composition. It is designed for students whose skills have been assessed at two levels below transfer, based on the statewide CB21 Coding of English courses sponsored by the Basic Skills Initiative. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 531 Reading Skills 1</td>
<td>4</td>
<td>Recommended placement based on the ESL START process.</td>
<td>An introduction to reading English as a second language stressing development of basic vocabulary and contextualized reading comprehension at the sentence and paragraph level. Lab orientation required. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 532 Writing Skills 1</td>
<td>4</td>
<td>Recommended placement based on the ESL START process.</td>
<td>An introduction to writing English as a second language with intensive grammar practice, stressing development of writing skills at the sentence level. Lab orientation required. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 534 Reading Skills 2</td>
<td>4</td>
<td>ESL 531 or ENGL 531 or recommended placement based on the ESL START process</td>
<td>An intermediate course in reading English as a second language stressing reading comprehension at the paragraph and short textual level. Lab orientation required. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 535 Writing Skills 2</td>
<td>4</td>
<td>ESL 532 or ENGL 532 or recommended placement based on the ESL START process</td>
<td>An intermediate course in writing English as a second language stressing writing at the sentence and basic paragraph level. Lab orientation required. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 537 Reading Skills 3</td>
<td>4</td>
<td>ESL 534 or ENGL 534 or recommended placement based on the ESL START process</td>
<td>An intermediate course in reading English as a second language stressing reading in short- and medium-length texts in various genres. Lab orientation required. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 538 Writing Skills 3</td>
<td>4</td>
<td>ESL 535 or ENGL 535 or recommended placement based on the ESL START process</td>
<td>An intermediate course in writing English as a second language stressing writing at the paragraph level in various rhetorical forms. Lab orientation required. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 540 Reading Skills 4</td>
<td>4</td>
<td>ESL 537 or ENGL 537 or recommended placement based on the ESL START process</td>
<td>An advanced level course in reading English as a second language designed to prepare students for the type of reading they will encounter in mainstream college courses. Lab orientation required. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 541 Writing Skills 4</td>
<td>4</td>
<td>ESL 538 or ENGL 538 or recommended placement based on the ESL START process</td>
<td>An advanced level course in English as a second language writing skills designed to prepare the student to use American academic writing style and conventions effectively. Lab orientation required. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 550 Grammar 1</td>
<td>3</td>
<td>Recommended placement in ESL 537 or ESL 540 or ESL 541</td>
<td>An introductory grammar skills course for intermediate level ESL students. Emphasis is on understanding and using elementary grammatical forms in reading, writing and oral/aural contexts. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 552 Grammar 3</td>
<td>3</td>
<td>ESL 551 or ESL 555</td>
<td>An advanced grammar skills course for advanced level ESL students. Emphasis is on understanding and using advanced grammatical forms in reading, writing, and oral/aural contexts. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 555 Pronunciation Skills</td>
<td>3</td>
<td>Recommended placement in ESL 537 or ESL 538 or ESL 540 or ESL 541</td>
<td>A pronunciation skills course for intermediate to advanced ESL students. (U) (P/NP)</td>
</tr>
<tr>
<td>ESL 560 Crossroads Café 1</td>
<td>3</td>
<td>Recommended placement in ESL 537 or ESL 538 or ESL 540 or ESL 541</td>
<td>The first of a two-level course emphasizing listening and reading comprehension skills for the non-native English language student. Using the multi-media curriculum of Crossroads Café, beginning students improve their English listening and reading comprehension as they expand their vocabulary and knowledge of mainstream culture in the USA. (F,S) (P/NP)</td>
</tr>
<tr>
<td>ESL 561 Crossroads Café 2</td>
<td>3</td>
<td>ESL 537 or ESL 538 or ESL 540 or ESL 541</td>
<td>The second of a two-level course emphasizing written and oral expressive skills for the non-native English language student. Using the multi-media curriculum of Crossroads Café, intermediate to advanced students improve their written and spoken English as they expand their vocabulary and knowledge of mainstream culture in the USA. (F,S) (P/NP)</td>
</tr>
</tbody>
</table>
ESL 562 Connect with English 1  3 units
The first of a two-level course emphasizing listening and reading comprehension skills for the non-native English language student. Using the multimedia curriculum of Connect with English, beginning students improve their English listening and reading comprehension as they expand their vocabulary and knowledge of mainstream culture in the USA. (F,S) (P/NP)

ESL 563 Connect with English 2  3 units
The second of a two-level course emphasizing written and oral expressive skills for the non-native English language student. Using the multimedia curriculum of Connect with English, intermediate to advanced students improve their written and spoken English as they expand their vocabulary and knowledge of mainstream culture in the USA. (F,S) (P/NP)

ESL 572 Public Speaking Skills  3 units
Advisory: ESL 540 or START placement into READ 510
Designed to help students better organize their ideas and improve their ability to speak standard American English. Oral communication skills and language fluency are improved through group and individual speaking activities and assignments. (F,S) (P/NP)

ESL 574 Interpersonal Speaking Skills  3 units
Advisory: ESL 540 or ESL 541 or START placement into READ 510
Provides the skills necessary for students to communicate in standard American English. Practical application of a variety of interpersonal communication behaviors will be used to improve communication abilities. (F,S) (P/NP)

ENTREPRENEURSHIP

ENTR 101 Introduction to Entrepreneurship  3 units
Acceptable for credit: CSU
Advisory: Eligibility for ENGL 513
Students will embark on one of the most exciting adventures ever known: launching a business. This course identifies the methods for developing a business idea, starting a business, acquiring resources and writing a business plan. (F, S) (GR)

ENTR 102 Entrepreneurship Projects  3 units
Acceptable for credit: CSU
Advisory: Eligibility for ENGL 513
Students will work with a local entrepreneur to identify business challenges and will develop strategies to solve a business problem(s). A written and oral presentation will be made to the entrepreneur. (F, S) (GR)

ENTR 103 New Venture Laboratory  1 to 3 units
Acceptable for credit: CSU
Advisory: BUS 101 and CBIS 101 and eligibility for ENGL 513
Students will participate in a “new venture” laboratory where they will develop a business idea and use technology to create a business and marketing plan. In a laboratory setting, students will interact with entrepreneurs, suppliers, customers and experts in order to create a new venture that may become viable. (F, S) (GR/P/NP)

ENVIRONMENTAL STUDIES

ENVS 101 Humans and the Environment  3 units
Acceptable for credit: CSU, UC
Explores contemporary problems generated by human scientific, social and ethical interaction with the environment. Lectures examine the scope of present environmental problems, possible future impacts and potential solutions. Topics include human impact on the environment, ecological controversies, ecosystem operation, water and energy perspectives and values of wilderness preservation. Emphasis is on both local and global dimensions of the above topics. This course is not open to students who are enrolled in or have received credit for GEOL 141. (F,S) (P/NP)

ENVS 102 Environmental Geology  3 units
Acceptable for credit: CSU, UC
A study of humankind’s scientific, social and ethical interactions with earth systems. Topics include earth processes, geologic hazards, the earth’s renewable and non-renewable resources and the earth’s ability to accept the products of human waste. This course is not open to students who are enrolled in or have received credit for GEOL 141. (F,S) (P/NP)

ENVS 199 Special Topics in Environmental Studies  0.5 to 3 units
Acceptable for credit: CSU, UC
For course description, see “Special Topics.”

ENVIRONMENTAL TECHNOLOGY

ENVT 101 Introduction to Environmental Hazardous Materials Technology  3 units
Acceptable for credit: CSU
A general overview of the environmental hazardous materials technology area. The history of pollution leading to current legislation, environmental effects of pollution and a survey of the regulatory framework will be presented. Career opportunities in the areas of handling and management of hazardous substances will be discussed. (A) (GR)

ENVT 149 Cooperative Work Experience: Occupational  1 to 8 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”

ENVT 150 HazMat General Site Worker  2 units
Course may be repeated 98 times
Acceptable for credit: CSU
Designed to facilitate employer compliance with mandated federal and/or state HAZWOPER General Site Worker training requirements. (A) (GR)

ENVT 151 HazMat - Site Supervisor  1 unit
Acceptable for credit: CSU
Prerequisite: ENVT 150
Specialized hazardous waste operations management training including employer’s safety and health program, employee training programs, personal protective equipment program, spill containment program and health hazard
monitoring procedures and techniques (Title 8 CCR 5192) advancing the HAZWOPER-general site worker training person to the site supervisor level. (F,S) (GR/P/NP)

**ENVT 152 ID & Assessment of HazMat** 3 units
Acceptable for credit: CSU
A comprehensive technical introduction to the nature of hazardous materials. Includes the principles and mechanics of toxicology as applied to the environment and basic chemical properties and characteristics pertaining to hazardous materials. (F,S) (GR/P/NP)

**ENVT 153 Industrial Safety Program** 1 unit
Acceptable for credit: CSU
Provides the skills necessary to recognize and prevent health hazards in the workplace. Topics include industrial ventilation, electrical safety, lockout-tagout, bloodborne pathogens, powered industrial trucks and accident “root cause” investigation. Overviews of OSHA “Injury and Illness Prevention Program” (IIPP), “Hazard Communication Program” and hazard assessment requirements are presented. (F,S) (GR/P/NP)

**ENVT 154 Monitoring & Sampling** 2 units
Acceptable for credit: CSU
Hazardous substance monitoring and sampling training includes device calibration requirements, data interpretation and “chain of custody.” Provides students with the practical knowledge to recognize and interpret chemical identification utilizing monitoring equipment and technical references. (F,S) (GR/P/NP)

**ENVT 155 Respiratory Protection-Admin** 0.5 unit
Acceptable for credit: CSU
Basic administrative principles and techniques for establishing and maintaining a respiratory protection program in accordance with 8 CCR 5144 and 29 CFR 910.134. Students learn to critically analyze and determine appropriate respiratory protection and the associated sanitizing, inspection and maintenance of respiratory protective equipment to develop and apply a respiratory protection program. (F,S) (GR/P/NP)

**ENVT 156 First Response Operational** 1 unit
Acceptable for credit: CSU
Designed to prepare the student to respond to a hazardous materials incident in a safe and defensive way with the existing resources and to prevent exposures to nearby persons, property and environments. Meets OSHA requirements under Title 8 CCR 5192 and 29 CFR 1910.120. (A) (GR/P/NP)

**ENVT 157 First Aid for HazMat Workers** 1.5 units
Acceptable for credit: CSU
Prepares the student to recognize medical emergencies that could occur at work sites involving hazardous materials. Emphasizes basic first aid skills needed to medically support HazMat work activities and to treat injuries and illnesses until trained emergency response personnel arrive. (F,S) (GR/P/NP)

**ENVT 158 Hazardous Waste Minimization** 1 unit
Acceptable for credit: CSU
Presents principles of waste reduction and cleaner production processes to reduce chemical and raw materials losses, manufacturing costs and waste generation. Provides students with practical techniques for initiating or expanding pollution prevention programs. (F,S) (GR/P/NP)

**ENVT 159 HazMat/Waste Permitting** 1 unit
Acceptable for credit: CSU
Examination of laws, regulations and policies of regulatory agencies at federal, state and local levels covering the proper management of hazardous substances from generation to disposal. Includes in-depth examination of state and federal hazardous waste control law requirements on Certified Unified Program Agency (CUPA) regulations for facilities permitting and site management. (F,S) (GR/P/NP)

**ENVT 160 Air & Water Pollution Permit** 2 units
Acceptable for credit: CSU
Prepares the student to recognize medical emergencies that could occur at work sites involving hazardous materials. Provides fundamental principles of air and water pollution prevention. Emphasizes the systematic assessment methods of identifying discharges to air and water and the permitting processes that are designed to minimize air and water pollution. (F,S) (GR/P/NP)

**ENVT 338 Land Navigation** 1.5 units
A study of mapping and GPS skills as applied to fire, HazMat and EMS response. Emphasizes interpreting topographic maps and use of both the compass and GPS device. This course is not open to students who are enrolled in or have received credit for FT 338 or EMS 338. (F,S) (GR/P/NP)

**ENVT 399 Special Topics in Environmental Technology** 0.5 to 3 units
For course description, see “Special Topics.”

**ENVT 450 HAZWOPER** 0.5 unit
Designed to facilitate employer compliance with mandated federal and/or state HAZWOPER General Site Worker training requirements. (F/S)

**ENVT 455 Respirator QNFT/Train the Trainer** 1 unit
Provides Occupational Safety Officers/Respiratory Protection Program Administrators with regulatory updates and skills necessary to conduct respirator quantitative fit testing (QNFT). Not open to students who are enrolled in or who have completed FT 359 Respirator QNFT/Train the Trainer.

**ENVT 456 FRO Refresher** 0.5 unit
Designed to facilitate employer compliance with mandated federal and/or state First Responder Operations training requirements (29 CFR 1910,120 and 8CCR5192 subpart (q).) (F/S)

**EXPERIMENTAL COURSES**

179, 379 Experimental Courses (.5-10)
179 - Acceptable for credit: CSU, UC-DAT
Lecture and/or lab as required by unit formula. Twelve units may be applied toward graduation requirements.
Formerly known as “Workshops,” these are courses designed in specific disciplines to test new curriculum before adopting it as part of an academic program. These courses meet specific needs in the college and community as they are identified. Each class will carry a specific title relating to the discipline concerned. Advanced level experimental course may require academic or equivalent prerequisite or corequisite. Experimental courses labeled 179 are transferable; those labeled 379 are non-transferable.
FAMILY AND CONSUMER SCIENCES

FCS 109 Basic Nutrition for Health 3 units
Acceptable for credit: CSU
An overview of basic nutrition emphasizing the application of nutrition science to consumer choices for improved health and fitness. Students will assess their own diet quality and will learn to select diets appropriate to their individual lifestyles, inherited health risks, tastes and needs at all stages of the lifecycle. The course examines current controversies and claims to distinguish fact from fallacy and assists in adapting research on diet and health to individual needs. This course is not open to students who are enrolled in or have received credit for FSN 109. (F,S) (GR/P/NP)

FCS 112 Weight Mgmt & Eating Disorders 3 units
Acceptable for credit: CSU
Examines the psychological, nutritional and physiological factors that lead to healthy and unhealthy weight management strategies. Guidelines will be provided for achieving permanent weight control by developing skills and techniques essential to changing eating patterns, behavior patterns and food preparation methods. Methods for calculating and planning adequate weight loss diets and for implementing appropriate exercise programs will be addressed. Emphasis will be given to the application of these skills to counseling situations. This course is not open to students who are enrolled in or have received credit for FSN 112. (F) (GR/P/NP)

FCS 120 Principles of Foods 1 4 units
Acceptable for credit: CSU
Advisory: MATH 511
Provides knowledge and experience in food preparation terminology, equipment and techniques to increase proficiency in, coupled with investigation of, the science principles involved. Emphasis is on ingredient functions and interactions; production and sensory evaluation standards; food safety and sanitation; nutrient values; and food aesthetics and presentation. Content includes recipe and menu development, stocks, sauces, meat, poultry, fish and shellfish. This course is not open to students who are enrolled in or have received credit for CA 120. (S) (GR/P/NP)

FCS 123 Principles of Foods 2 2 units
Acceptable for credit: CSU
Prerequisite: CA 120 or FCS 120
Provides knowledge and experience in food preparation terminology, equipment and techniques. Emphasis is on scientific principles, ingredient functions and interactions, production and sensory evaluation standards; food safety and sanitation; nutrient values; and food aesthetics and presentation of vegetables, starches and grains, salads and dressings, sandwiches, hors d'oeuvres, Grande Manger, breakfast foods, bakeshop and international cuisine. This course is not open to students who are enrolled in or have received credit for CA 123. (F) (GR/P/NP)

FCS 130 Consumer & Family Finance 3 units
Acceptable for credit: CSU
Designed to assist individuals and/or those working with individuals to analyze and direct their financial affairs. Elements and concepts of financial planning and decision-making in the areas of budgeting, taxes, borrowing, money management, consuming, insurance, investments, retirement and estate planning will be analyzed with an emphasis on application to changing family needs. This course is not open to students who are enrolled in or have received credit for BUS 130 or ECON 130. (F,S) (GR/P/NP)

FCS 131 Life Management 3 units
Acceptable for credit: CSU
Provides individuals with skills for understanding and using internal and external resources to function effectively in our present and future society. Major topics include: effects of cultural forces and future trends on values, standards and goals; skills for decision making, time, energy, stress and conflict management; and techniques for improving self-understanding and interpersonal relationships in a culturally diverse society. Students who have received credit for more than three life management modules (FCS 331, FCS 332, FCS 333, FCS 334, FCS 335, FCS 336 or FCS 337) may not enroll in this course. (F,S) (GR/P/NP)

FCS 134 Food/Nutrition/Customs/Culture 4 units
Acceptable for credit: CSU
Advisory: FCS 120 or CA 120 and CA 124
A study of the socio-economic, psychological and anthropological perspectives of traditional and contemporary food preparation within various cultures with an emphasis on American, African, Asian, Middle Eastern, European and Latin American regions. Global food issues, sanitation and safety practices are addressed. This course is not open to students who are enrolled in or have received credit for FSN 134. (S) (GR/P/NP)

FCS 137 Fashion Industry & Marketing 3 units
Acceptable for credit: CSU
Explores all levels of the fashion industry including marketing, job market analysis and careers. Core components are the development of fashion; fashion meaning and terminology; primary markets of materials including textiles, trims, leather and fur; secondary markets of design and production of apparel, accessories, cosmetics and home fashions; retail market level including domestic, regional and foreign markets, global sourcing, strategies in fashion retailing; and the auxiliary level of supporting services. (F) (GR/P/NP)

FCS 138 Professional Apparel Selection 3 units
Acceptable for Credit: CSU
Advisory: Eligibility for ENGL 101 or ENGL 514. 
Apparel selection for the individual and family based on socio-psychological influences such as culture and fashion; personal body shape and proportions; design guidelines, wardrobe analysis and coordination; and consumer clothing purchasing guides. (F) (GR/P/NP)

FCS 139 Textiles 3 units
Acceptable for Credit: CSU, UC
Advisory: Eligibility for ENGL 101 or ENGL 514.
A consumer-oriented analysis of textile products used in the apparel and interiors industries today, including fibers, yarn, construction, fabric construction, dyeing, finishing and labeling. Emphasis is on selection, performance, suitability and care of textiles. Career opportunities as well as environmental and legal issues are discussed. (A) (GR/P/NP)
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<th>Course Code</th>
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| FCS 140    | Apparel Construction                             | 2     | Course may be repeated three times.  
Acceptable for Credit: CSU  
Advisory: An ability to use the basic math skills of addition, subtraction, division and multiplication of positive whole numbers and fractions is needed.  
Provides an introduction to the technology, equipment, and techniques used in the garment industry, including fit and care. Introduces the fashion program and employment opportunities in the industry. (F,S,U) (P/NP) |
| FCS 144    | Historic Fashion/Costume                         | 3     | A study of period costume, its relationship to the political and social conditions of the times, evolution from related arts and influence on modern dress. Designed for students of fashion, theater arts and merchandising. (A) (GR/P/NP)  |
| FCS 149    | Cooperative Work Experience: Occupational        | 1-8   | Course may be repeated three times.  
Acceptable for credit: CSU, UC-DAT  
For course description, see “Cooperative Work Experience: Occupational.” |
| FCS 170    | Interior Design                                  | 3     | Acceptable for credit: CSU  
Fundamentals of interior design and furnishings, including the application of the elements and principles of color and design, space planning, selection and arrangement of decorative materials and the organized selection of furnishings and materials. Includes solving individual design problems, considers consumer and socioeconomic factors and includes graphic materials and drafting skills used in the organization and presentation of projects. (F) (GR/P/NP) |
| FCS 171    | Interior Design Materials                        | 3     | Acceptable for credit: CSU  
Advisory: An ability to use the basic math skills of addition, subtraction, division and multiplication of positive whole numbers and fractions is needed.  
Analyzes and evaluates products and materials used in interior design and applies selection criteria to their specific uses. Emphasis is placed on cost, estimations and resources for furniture, floor and wall coverings, window treatments, architectural finishes, lighting fixtures and accessories. (S) (GR/P/NP) |
| FCS 179, 379| Experimental Courses in Family & Consumer Sciences| 0.5-10| Acceptable for credit: CSU, UC-DAT  
For course description, see "Experimental Courses." |
| FCS 189    | Independent Projects in Family & Consumer Sciences| 1-3   | Course may be repeated three times.  
Acceptable for credit: CSU, UC-DAT  
For course description, see “Independent Projects.” |
| FCS 199, 399| Special Topics in Family & Consumer Sciences     | 0.5-3 | Acceptable for Credit: CSU, UC  
For course description, see “Special Topics.” |

**FILM**

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<th>Description</th>
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</table>
| FILM 101   | Film Art & Communication                          | 3     | Acceptable for credit: CSU, UC  
An introduction to a variety of international film styles, themes and directors, as well as to the art of the documentary and experimental film. Emphasis is placed on ways films communicate through acting, photography, sound and editing. (F) (P/NP) |
| FILM 102   | Hollywood & the American Film                     | 3     | Acceptable for credit: CSU, UC  
The development of American film through critical appraisal of major directors' works from both the sound and silent eras. The films examined are representative of their directors as artists and of major social, cultural and aesthetic movements within the film industry and country. (S) (GR/P/NP) |
| FILM 103   | Contemporary Latin American Film                  | 3     | Acceptable for credit: CSU, UC  
A study of recent Latino cinema in the Americas in a historical and cultural context. Representation of Latino culture is examined in the context of the global Hollywood structure and in light of various national cinemas. Major social, cultural and aesthetic movements within Latino cinema are explored. (S) (GR/P/NP) |
| FILM 105   | Film & TV Writing                                 | 3     | Acceptable for credit: CSU  
A study of the technique of screenwriting for the conventional narrative film and for television. Students will be required to complete writing exercises, a treatment and master scenes of a full-length project. (F,S) (GR/P/NP) |
FILM 106 Film & TV Writing 2 3 units
Course may be repeated one time.
Acceptable for credit: CSU
Prerequisite: FILM 105
An advanced course in which students will gain professional insight into scriptwriting techniques for film and television. Designed to provide students with the skills needed for scripting complex narrative stories. (F,S) (GR/P/NP)

FILM 107 History of World Cinema 3 units
Acceptable for credit: CSU, UC
An examination of the rise of various national cinema movements shaped by conspiring artistic, cultural and economic factors in the wake of World War II through the modern era. Social, historic and artistic context provided through comparison and contrast to the Hollywood model of filmmaking, as well as the screening and critical analysis of films by noted international directors. (S) (GR/P/NP)

FILM 110 Introduction to Motion Picture & Video Production 4 units
Acceptable for credit: CSU, UC-CL
An introduction to film and video production techniques, including directing, cinematography, acting and editing of film. Students make a variety of short Super 8mm films and video projects, which involve storytelling, experimental and documentary techniques. No equipment required. (F,S) (GR/P/NP)

FILM 111 Intermediate Motion Picture & Video Production 4 units
Course may be repeated one time.
Acceptable for credit: CSU, UC-CL
Advisory: FILM 110
A study of field production skills used to create independent cinema. Focuses on producing and directing skills as well as understanding the roles of field production crews. Development of narrative and documentary ideas for field production using both guerrilla and conventional set techniques is emphasized. Topics include basic field production techniques including scriptwriting, directing, cinematography and non-linear editing. (S) (GR/P/NP)

FILM 112 Studio Production 4 units
Course may be repeated one time.
Acceptable for credit: CSU
Advisory: FILM 110
A study of the skills necessary to create a studio television program. Students will conduct research and pre-interviews, develop an outline, conduct on-camera interviews and shoot coverage shots. Topics include basic studio television production techniques such as scriptwriting, studio directing and non-linear editing. (F,S) (GR/P/NP)

FILM 114 Local Programming 2 units
Course may be repeated three times.
Acceptable for credit: CSU
Advisory: FILM 112
Provides students with the opportunity to create studio talk shows with field-produced documentary segments. With instructor approval, students may produce long-format documentaries. Shows will air on local cable television. (F,S) (GR/P/NP)

FILM 115 Introduction to Animation 3 units
Acceptable for credit: CSU
An introduction to animation production including classical character animation and nontraditional techniques. This course is not open to students who are enrolled in or have received credit for ART 115 or MMAC 115. (F) (GR/P/NP)

FILM 116 Intermediate Animation 3 units
Course may be repeated three times.
Acceptable for credit: CSU
Prerequisite: ART 115 or FILM 115 or MMAC 115
A continuation of ART 115 or MMAC 115, emphasizing the development and refinement of animation skills through involvement in class and individual projects. This course is not open to students who are enrolled in or have received credit for MMAC 116. (F,S) (GR/P/NP)

FILM 117 3D Computer Animation 1 3 units
Acceptable for credit: CSU
Advisory: GRPH 111 and GRPH 112 or Auto CAD class or experience with graphics or architectural software applications is strongly recommended.
An introduction to 3D modeling and animation, using professional software to create characters, environments and animations on the computer. This course is not open to students who are enrolled in or have received credit for MMAC 117. (F,S) (GR/P/NP)

FILM 118 3D Computer Animation 2 3 units
Course may be repeated one time.
Acceptable for credit: CSU
Prerequisite: FILM 117
An intermediate experience in 3D-computer animation. This course is not open to students who are enrolled in or have received credit for MMAC 118. (F,S) (GR/P/NP)

FILM 120 Introduction to Sound Recording & Mixing 3 units
Acceptable for credit: CSU
An introduction to the equipment, terminology and procedures of sound engineering. Combines lectures and demonstrations with hands-on use of equipment. Students will have the opportunity to use professional sound recording and processing equipment in various recording and mix-down situations. This course is not open to students who are enrolled in or have received credit for MUS 115. (F,S) (GR/P/NP)

FILM 121 Sound Production Techniques 3 units
Acceptable for credit: CSU
Explores the use of digital audio software for recording music and producing audio for video projects, as well as the use of digital signal processors for mixing and mastering recordings. This course is not open to students who are enrolled in or have received credit for MUS 116. (S) (GR/P/NP)

FILM 123 Directing for the Camera 2 units
Course may be repeated three times.
Acceptable for credit: CSU
An opportunity for students interested in directing for film and television to develop or refine their skills. (F,S) (GR/P/NP)
FILM 125 Computer Video Editing 3 units
Course may be repeated one time.
Acceptable for credit: CSU
Presents non-linear video editing including combining clips and digital source materials, editing digital movies and preparing digital movies for the Web. This course is not open to students who are enrolled in or have received credit for MMAC 126. (F,S) (GR/P/NP)

FILM 126 Motion Graphics 3 units
Acceptable for credit: CSU
Advisory: GRPH 111 and GRPH 112 or FILM 125
Explores new digital approaches for creating and composing powerful visual imagery for use in film/video, multimedia and design. Includes integration of graphics, video, text and sound on desktop computers. This course is not open to students who are enrolled in or have received credit for MMAC 126. (F,S) (GR/P/NP)

FILM 127 DVD Design & Production 3 units
Course may be repeated one time.
Acceptable for credit: CSU
Advisory: FILM 125 and MMAC 125
Presents non-linear video editing including advanced post-production techniques and DVD authoring. This course is not open to students who are enrolled in or have received credit for MMAC 127. (S) (GR/P/NP)

FILM 128 Intermediate Motion Graphics 3 units
Advisory: FILM 126 and MMAC 126
Intermediate study in motion graphics utilizing current industry standard software. Emphasizes the expansion and refinement of digital visual effects skills through involvement in class and individual projects. (F) (GR/P/NP)

FILM 179 Experimental Courses in Film 0.5 to 10 units
Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

FILM 189 Independent Projects in Film 1 to 3 units
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

FILM 199 Special Topics in Film 0.5 to 3 units
Acceptable for Credit: CSU, UC
For course description, see "Special Topics"

FILM 380 Film Production Lab 1 unit
Course may be repeated three times.
Corequisite: FILM 110 or FILM 111 or FILM 112 or FILM 113 or FILM 116 or FILM 117 or FILM 118 or FILM 120 or FILM 121 or FILM 123.
An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (F,S) (P/NP)

FILM 381 Film Post Production Lab 1 unit
Course may be repeated three times.
Corequisite: FILM 114 or FILM 125 or FILM 126 or FILM 127
An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (F,S) (P/NP)

FILM 386 Film Festival Production Lab 2 units
Course may be repeated three times.
Provides an opportunity for students to plan for and produce the annual Allan Hancock College Film Festival. This annual event provides the opportunity for AHC film and video students to screen their work in a theater setting open to the public. (F,S) (GR/P/NP)

FIRE TECHNOLOGY

FT 101 Fire Protection Organization 3 units
Acceptable for credit: CSU
Provides an introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services, fire departments as part of local government; laws and regulations affecting fire services; fire service nomenclature; specific protection functions; basic fire chemistry and physics. Fire protection systems and fire strategy and tactics will also be introduced. (A) (GR)

FT 102 Fire Prevention Technology 3 units
Acceptable for credit: CSU
Advisory: Completion of or concurrent enrollment in FT 101
Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes and identification and correction of fire hazards. Explores the relationship of fire prevention with fire safety education and detection and suppression systems. (A) (GR)

FT 103 Fire Protection Equipment & Systems 3 units
Acceptable for credit: CSU
Advisory: Completion of or concurrent enrollment in FT 101
Provides information relating to the design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection and portable fire extinguishers. (A) (GR)

FT 104 Building Construction/Fire Protection 3 units
Acceptable for credit: CSU
Advisory: Completion of or concurrent enrollment in FT 101
A study of 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, preplanning fire operations and operating at fires. The development and evolution of building and fire codes will be studied in relationship to past fires in residential, commercial and industrial occupancies. (A) (GR)

FT 105 Fire Behavior & Combustion 3 units
Acceptable for credit: CSU
Advisory: Completion of or concurrent enrollment in FT 101
Theory and fundamentals of how and why fires start and spread and how fires are controlled, including an in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents and fire control techniques. (A) (GR)
FT 106 Principles of Fire & Emergency Safety & Survival 3 units
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. (GR/P/NP)

FT 107 Apparatus & Equipment 3 units
Acceptable for credit: CSU
Advisory: MATH 300 is strongly recommended
This course exposes the student to mechanized equipment operated by the men and women of the fire service and regulations pertaining to their use. Subject matter includes: driving laws, driving techniques, construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment and apparatus maintenance. (U) (GR)

FT 130 Principles of Emergency Mgmt 3 units
Acceptable for credit: CSU
An introduction to the fundamentals of the emergency management system. Topics include the four phases of the emergency management cycle, community-focused hazard analysis and the connection between planning and emergency management. This course is not open to students who have completed or who are enrolled in EMS 130. (F,S,U) (GR)

FT 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see "Cooperative Work Experience: Occupational."

FT 307 Firefighter 1 Academy 1A 6 units
Prerequisite: Completion of official application forms and procedures for enrollment.
Technical and manipulative training in concepts of fire department organization and operations. Includes fire behavior, building construction, safety, rescue, ropes and knots, hose and appliances, personal protective equipment and accountability. (F,S) (GR)

FT 308 Firefighter 1 Academy 1B 6 units
Prerequisite: FT 307
Technical and manipulative training in concepts of fire department organization and operations. Includes fire service tools and equipment, wildland, fire protection systems, fire investigation, tactics, ladders, loss prevention, oil fire/LPG control and forcible entry. (F,S) (GR)

FT 310 Fire Service Physical Fitness 2 units
Advisory: Concurrent enrollment in FT 307
Explores the physical demands on the fire service and provides the correct training practices to meet those physical demands. (F,S) (GR)

FT 319 Emergency Response to Terrorism 3 units
Enables emergency responders to recognize circumstances and key indicators that may signify a terrorist incident or threat potential. Topics include implementing incident command, self-protective measures, scene security, force protection and defensive measures associated with biological, nuclear, incendiary, chemical and explosives incidents. Materials and information relevant to current events on emergency preparedness in terrorist incident management for emergency responders of all disciplines are explored. This course is not open to students who are enrolled in or have received credit for EMS 319. (A) (GR/P/NP)

FT 320 Fire Command 1A 2 units
Designed to provide the student with information and experience in command and control techniques used at the scene of an emergency. The course emphasizes decision making; the act of command; the authority or right to command; the personnel, organization structure or area under an individual commander; and the preplanning and training requirements for effective performance as a fire ground supervisor. (A) (GR)

FT 321 Fire Command 1B 2 units
Designed to provide the student with the information required to direct a fire company in the operations necessary to control a hazardous material emergency. This course emphasizes preplanning, identification and behavior of hazardous materials, resources, tactics and simulation exercises. (A) (GR)

FT 322 Fire Prevention 1A 2 units
Designed to provide the student with the information required for fire prevention activities in hazardous materials areas. The course emphasizes the responsibilities of fire prevention personnel in code enforcement and fire causes in flammable and combustible liquid facilities, compressed and liquefied gases facilities and toxic, reactive and radioactive facilities. (A) (GR)

FT 323 Fire Prevention 1B 2 units
Designed to provide the student with the information required to make fire prevention inspections in commercial occupancies and public assembly buildings. The course emphasizes building construction and furnishings, occupant load and egress requirements, sprinkler systems, electrical devices, heating and cooking equipment and detection and alarm systems. (A) (GR)

FT 324 Instructor Training 1A 2 units
Provides the student with information and experience in developing and delivering manipulative instructional materials pertaining to the fire service. The course emphasizes course outlining, developing manipulative lesson plans, developing student performance goals, teaching demonstrations and testing manipulative performance. (A) (GR)

FT 325 Instructor Training 1B 2 units
Prerequisite: FT 324
Designed to provide the student with information and experience in developing and delivering technical instructional materials pertaining to the fire service. The course emphasizes course outlining, developing technical lesson plans, developing student performance goals, teaching demonstrations and testing technical performance. (A) (GR)

FT 326 Fire Management 1 2 units
Designed to prepare the student to become a manager of a fire company. The course emphasizes the organizational structure and process as well as managerial control, including determining goals and objectives, performing task analyses, evaluating and monitoring performance and developing communication and coordination skills. (A) (GR)
### FT 327 Fire Investigation 1A
- **2 units**
- Designed to provide the student with the knowledge required to properly investigate a fire. The course emphasizes investigation of a fire scene, determination of the cause and origin, handling and preservation of evidence, documentation of the scene and completion of reports. (A) (GR)

### FT 328 Fire Investigation 1B
- **2 units**
- Prerequisite: FT 327
- Provides students with a deeper understanding of fire investigation enhancing the topics presented in Fire Investigation 1A and includes discussion of the juvenile fire setter, as well as report writing, evidence collection and preservation procedures. (A) (GR)

### FT 329 Fire Prevention 1C
- **2 units**
- Prerequisite: FT 328
- Designed to familiarize the student with fire prevention practices pertaining to flammable liquids and gasses. (A) (GR)

### FT 332 Fire Command 1C
- **2 units**
- A study of the responsibilities of the structural Company Officer at wildland/urban interface incidents. This course will build on the knowledge the students already have of Company Officer responsibilities in emergency situations. Topics include the fire organization, safety and survival. (F,S,U) (GR)

### FT 333 Fire Command 2E
- **2 units**
- Advisory: FT 320 and FT 321 and FT 379
- Designed for the fire officer that may have the responsibility of commanding a wildland fire. (F,S) (GR)

### FT 337 Fire Command 2E
- **2 units**
- A study of mapping and GPS skills as applied to fire, HazMat and EMS emergency response. Emphasizes interpreting topographic maps and use of both the compass and GPS device. This course is not open to students who are enrolled in or have received credit for EMS 338 or ENVT 338. (F,S) (GR/P/NP)

### FT 341 Fire Hydraulics
- **3 units**
- Hydraulic laws and formulas as applied to the fire service, including application of formulas and mental calculations to hydraulic problems, water supply problems and underwriters' requirements for pumps. Reviews basic mathematics. (A) (GR/P/NP)

### FT 342 Fireground Hydraulics
- **0.5 unit**
- Students will learn field fireground hydraulic formulas that have been field tested and proven. Students will learn the study of water in motion and fire stream control. (F,S) (GR)

### FT 343 Pump Hydraulics
- **0.5 unit**
- Explores theory and workings of different types of fire pumps. Topics include positive displacement, centrifugal and varieties of pump impellers. (F,S) (GR)

### FT 344 Emergency Vehicle Operations
- **0.5 unit**
- Students will learn defensive driving principles and apparatus handling techniques. Driving problems will be presented to the student in both class situations and field examples. The student will gain actual field experience by driving over a prepared course and having to react to different traffic problems. (F,S) (GR)

### FT 346 Driver Operator 1B
- **2 units**
- Provides the student with theory and operation of fire service pumps. Topics include pump maintenance, water supplies, field hydraulics and pump operating techniques. (F,S) (GR)

### FT 347 Auto Extrication
- **0.5 unit**
- Introduction to the safe and proper techniques for extrication of trapped victims of vehicle accidents. Various tools are used and different extrication methods are presented. (F,S) (GR)

### FT 348 Pump Operator for Volunteers
- **0.5 unit**
- Basic theory, methods and techniques for operating fire service pumps at an emergency scene. (F,S) (GR)

### FT 350 Building Construction Wood/Ordinary
- **1 unit**
- Provides an introduction to basic principles and characteristics of wood and ordinary construction as applicable to the fire service. (F,S) (GR)

### FT 351 Building Construction Non-Combustible
- **1 unit**
- Acquaints students with design of non-combustible and fire resistive structures and the effects of fire on structural integrity and firefighter safety. (F,S) (GR)

### FT 356 Rescue Systems I
- **1.5 units**
- Provides students with a deeper understanding of fire service pumps. Topics include pump maintenance, water supplies, field hydraulics and pump operating techniques. (F,S) (GR)

### FT 358 Emergency Trench Rescue Operations
- **1 unit**
- Provides an introduction to basic principles and characteristics of wood and ordinary construction as applicable to the fire service. (F,S) (GR)

### FT 360 Rescue Systems I
- **2 units**
- Offers information on the skills necessary to successfully accomplish a basic low angle rescue. (F,S) (GR)

### FT 361 Confined Space Awareness
- **0.5 unit**
- Introduces fire service personnel to confined space entry/rescue training as required by CAL-OSHA Title 8 General Safety Orders. (F,S) (GR)

### FT 362 Confined Space Rescue Operations
- **2 units**
- Prerequisite: FT 361
- Identification of confined spaces and familiarization with CAL-OSHA and federal regulations. Techniques for hazard mitigation will be explored. (F,S) (GR)

### FT 363 Low Angle Rescue
- **1 unit**
- Provides information on the skills, equipment and techniques that are necessary to successfully accomplish a basic low angle rescue. (F,S) (GR)

### FT 364 High Angle Rescue
- **2 units**
- Course provides information on the skills necessary to safely effect complex or multiple high angle rescues. It emphasizes helicopter and night rescues. (F,S) (GR)

### FT 365 Emergency Trench Rescue Operations
- **1 unit**
- Provides information on the skills necessary to extricate trapped people (or animals) from a collapse trench. Securing the site and methods for removing victims will be emphasized. (F,S) (GR)
FT 369 Firefighter Safety and Survival 1 unit
Examines significant areas of firefighter fatalities and injuries associated with emergency and non-emergency situations. Topics include causes of fatalities and injuries, and methods to implement recommended solutions. (F,S) (GR)

FT 370 Introduction to Surf Rescue 1 unit
Advisory: Ability to swim
Designed to acquaint rescue personnel with the surf environment, surf rescue equipment, and safe surf rescue practices. (F,S) (GR)

FT 371 Shore-based Swift Water Rescue 0.5 unit
Presents the skills necessary to perform swift water rescue. Topics include how to perform self-rescue, essential equipment, pre-plan target areas, victim’s behavior, effects of hypothermia, search techniques and ICS-position related to water rescue. (F,S) (GR)

FT 373 Ocean Lifeguard I 2 units
This United States Lifesaving Association certified course provides basic instruction in ocean rescue, preventative lifeguarding, lifeguard safety and beach operations. (F,S) (GR)

FT374 First Responder Medical 2 units
Prerequisite: Current CPR-C Card
Designed to train the first responder to perform basic patient care and stabilization at the scene of a medical emergency. (F,S) (GR)

FT 379 Experimental Courses in Fire Technology 0.5 to 10 units
For course description, see "Experimental Courses."

FT 380 Fire Arson Detection 1 unit
Provides basic understanding of fire cause and arson investigation. (F,S) (GR)

FT 382 Scientific Method of Fire Investigation 0.5 unit
Theory and fundamentals of how to conduct fire investigation in structures, vehicles and wildland. Required course in order to maintain certification as a Certified Fire Investigator (CFI). (F,S) (GR)

FT 383 Structural Fire Investigation 0.5 unit
Theory and fundamentals of how to conduct a proper, legal fire investigation in structures, vehicles and wildland. This course is required in order to maintain certification as a Certified Fire Investigator (CFI). (F,S) (GR)

FT 399 Special Topics in Fire Technology 0.5 to 3 units
For course description, see “Special Topics”

FT 402 Fire Control 2 0.5 unit
Provides the beginning or volunteer firefighter with information, methods, and techniques for operating firefighting tools and performing firefighter evolutions. (F,S) (GR)

FT 403 Fire Control 3 0.5 unit
Offers students the opportunity to participate in a live fire exercise applying extinguishing techniques and safety methods. (F,S) (GR)

FT 404 Fire Control 4 0.5 unit
A study of wildland firefighting providing methods and techniques for the utilization of wildland tactics, hand tools and hose lays, wildland hand crew operations and the use of aircraft and bulldozer for wildland firefighting. (F,S) (GR)

FT 405 Fire Control 4A 0.5 unit
This Fire Service Training and Education Program (FSTEP) course provides the student with information on the characteristics and hazards or flammable gases. The student will learn methods and procedures of handling flammable gases whether involved in fire or not. The student will fight flammable gas fires under controlled fire scenarios under strict supervision. (F,S) (GR)

FT 406 Fire Control 4B 0.5 unit
This Fire Service Training and Education Program (FSTEP) course provides the student with information on the characteristics and hazards of flammable gases. The student will learn methods and procedures of handling flammable gases whether involved in fire or not. The student will fight flammable gas fires under controlled fire scenarios under strict supervision. (F,S) (GR)

FT 410 Volunteer Firefighter 2 units
An 80-160 hour course designed to provide the volunteer firefighter with the minimum safety and technical training required to function in an effective, competent manner. This course established an introductory base for more advanced training at an emergency scene. (F,S) (GR)

FT 411 Fire Responder Medical Recertification 0.5 unit
Prerequisite: WFT 302 and completion of or concurrent enrollment in EMS 399
Refresher training for first responders to meet CCR Title 22 mandated training requirements in basic patient care and stabilization at medical emergencies. May be repeated as often as necessary for the purposes of certification. (F,S) (GR)

FT 483 Competency of Ignition Sources 0.5 unit
Course may be repeated 99 times
Theory and fundamentals of how to conduct fire investigation in structures. Required course in order to maintain certification as a Certified Fire Investigator (CFI). (F,S) (P/NP)

FOOD SCIENCE AND NUTRITION

FSN 109 Basic Nutrition for Health 3 units
Acceptable for credit: CSU
An overview of basic nutrition emphasizing the application of nutrition science to consumer choices for improved health and fitness. Students will assess their own diet quality and will learn to select diets appropriate to their individual lifestyles, inherited health risks, tastes and needs at all stages of the lifecycle. The course examines current controversies and claims in order to distinguish fact from fallacy and assists in adapting research on diet and health to individual needs. This course is not open to students who are enrolled in or have received credit for FCS 109. (F,S) (GR/P/NP)
FSN 110 Nutrition Science 3 units
Acceptable for credit: CSU, UC
A survey course in the scientific concepts of nutrition relating nutrient structures, requirements, food sources, functions in basic life processes and nutrition status to health, fitness and disease. Included is a computerized diet analysis, an emphasis on individual needs throughout the lifespan, guidelines for consumer decision making and use of the scientific method to examine current nutrition controversies. (F,S) (GR/P/NP)

FSN 112 Weight Mgmt/Eating Disorders 3 units
Acceptable for credit: CSU
Examines the psychological, nutritional and physiological factors that lead to healthy and unhealthy weight management strategies. Guidelines will be provided for achieving permanent weight control by developing skills and techniques essential to changing eating patterns, behavior patterns and food preparation methods. Methods for calculating and planning adequate weight loss diets and for implementing appropriate exercise programs will be addressed. Emphasis will be given to the application of these skills to counseling situations. This course is not open to students who are enrolled in or have received credit for FCS 112. (F) (GR/P/NP)

FSN 127 Field Experience - Food Services 2 units
Acceptable for credit: CSU
Prerequisite: FSN 109 or FCS 109 and CA 120 or FCS 120 and CA 124 and CA 125 and CA 126
Provides the student in the Dietetic Service Supervisor Program with experience in a health care facility where they can observe and participate, with a health care team, in providing nutrition care. Food service management skills such as preparation of therapeutic and modified diet orders as provided by an RD; requisitioning; standardizing recipes; using cycle menus; food receiving, preparation, storage and service; recordkeeping; and communicating are emphasized. The 75 field experience hours are by arrangement with the field site and may include 25 hours in the student's current work facility. (A) (GR)

FSN 128 Field Experience 2 – Dietetics 2 units
Acceptable for credit: CSU
Prerequisite: FSN 109 or FCS 109 and CA 120 or FCS 120 and CA 124 and CA 125 and CA 126
Provides the student in the Dietetic Service Supervisor Program with experience in a health care facility where they can observe and participate, with a health care team, in providing nutrition care. Understanding the DSS scope of practice in the preparation of therapeutic and modified diets in order to implement patient nutrition care, tube feeding, patient education monitoring and recordkeeping are emphasized. The 75 field experience hours are by arrangement with the field site and may include 25 hours in the student's current work facility. (S) (GR)

FSN 132 Intro to Culinology® Professions 1 unit
Acceptable for credit: CSU
Advisory: ENGL 512
Orientation to careers in dietetics, nutrition science, food science, culinary arts, food service management and Culinology®, and to campus programs and resources. Career portfolios, professional organizations and publications are explored. Educational plans will be developed in conjunction with counseling personnel. (F) (GR/P/N)

FSN 133 Introduction to Food Science 3 units
Acceptable for credit: CSU
Prerequisite: CHEM 120
An introduction to the basic principles of food chemistry. Food processing technologies and the government regulation of food processing and labeling are examined. Sensory analysis of foods is evaluated for product quality, along with the factors that affect the quality and preparation of food. The scientific method is emphasized throughout the course. (S) (GR/P/NP)

FSN 134 Food, Nutrition, Customs & Culture 4 units
Acceptable for credit: CSU
Advisory: FCS 120 or CA 120 and CA 124
A study of the socioeconomic, psychological and anthropological perspectives of traditional and contemporary food preparation within various cultures with an emphasis on American, African, Asian, Middle Eastern, European and Latin American regions. Global food issues, sanitation and safety practices are addressed. This course is not open to students who are enrolled in or have received credit for FCS 134. (S) (GR/P/NP)

FSN 199 Special Topics in Food Science & Nutrition 0.5 to 3 units
Acceptable for credit: CSU
For course description, see “Special Topics”

FRENCH

FRCH 101 Elementary French 5 units
Acceptable for credit: CSU, UC
An introduction to current French, stressing pronouncing, understanding, speaking, writing and reading the language. In a question and answer format, students receive oral and written practice in sentence structure, vocabulary and idiomatic French. Includes an introduction to some aspects of the culture of the French-speaking world. (F,S) (GR/P/NP)

FRCH 102 Elementary French 5 units
Acceptable for credit: CSU, UC
Prerequisite: FRCH 101
A continuation of FRCH 101, emphasizing oral and written participation and continuing the cultural introduction to some aspects of French history, art, music, customs and folklore. (F,S) (GR/P/NP)

FRCH 189 Independent Projects in French 1 to 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

GEOGRAPHIC INFORMATION SYSTEMS

GIS 111 Global Positioning Systems (GPS) 1 unit
Acceptable for credit: CSU
An introduction to satellite navigation and location using the U.S. global positioning system, NAVSTAR. Topics include fundamentals of cartography (map reading and navigation, map scale, projections and coordinate systems), how
satellites can be used to determine accurate location, collection of field location data using a variety of GPS receivers and entry and display of locational data in a geographic information system (GIS). This course is not open to students who are enrolled in or have received credit for AG 111. (F) (GR/P/NP)

**GIS 112 Fundamentals of Mapping w/ GIS  3 units**
*Acceptable for credit: CSU*  
Advisory: CBIS 101  
An introduction to mapping sciences with a primary focus on GIS. Includes the history, structure, uses, hardware and software requirements as well as the basic operation of GIS. Other geographic technologies (aerial photography, remote sensing and global positioning systems) as they relate to GIS are examined. Recommended for those who use or anticipate using any of the many types of data that can be mapped. This course is not open to students who are enrolled in or have received credit for AG 112.  
(F,S) (GR/P/NP)

**GEOGRAPHY**

**GEOG 101 Physical Geography  3 units**
*Acceptable for credit: CSU, UC*  
Advisory: ENGL 513  
An introduction to the earth’s physical geography, addressing the origins, patterns and interconnections of weather/climate, water, landforms, living systems and human culture.  
(F,S) (GR/P/NP)

**GEOG 102 Human Geography  3 units**
*Acceptable for credit: CSU, UC*  
Advisory: ENGL 513  
A historical perspective is used to explore our human role in shaping the earth’s cultural landscapes. Globalization and cultural diversity are course themes. Topics include population and migration; the geography of language, religion and social customs; economic forms; settlements; and resource problems.  
(F,S) (GR/P/NP)

**GEOG 103 World Regional Geography  3 units**
*Acceptable for credit: CSU, UC*  
A study of the world’s major geographic regions. The course focuses on the increasing globalization of the world and a movement towards greater emphasis on cultural diversity.  
(F) (GR/P/NP)

**GEOG 110 Introduction to Meteorology  4 units**
*Acceptable for credit: CSU, UC*  
Advisory: Successful completion of MATH 311  
An introduction to the physical processes underlying atmospheric and weather phenomena, including global climate change and the impacts of various weather and climate phenomena on society. Topics include thermodynamic processes in the moist terrestrial atmosphere; radiation (solar-terrestrial) and heat budget; atmospheric stability and convection. The dynamics of the atmosphere and ocean, along with their general circulation patterns are described. Both synoptic and mesoscale meteorology, as well as factors involved in weather forecasting are discussed, including basic observations, data analysis and modeling.  
(F,S) (GR/P/NP)

**GEOG 179 Experimental Courses in Geography  0.5 to 10 units**
*Acceptable for credit: CSU, UC*  
For course description, see "Experimental Courses."

**GEOG 189 Independent Projects in Geography  1 to 3 units**
*Acceptable for credit: CSU, UC-DAT*  
For course description, see "Independent Projects."

**GEOLOGY**

**GEOL 100 Physical Geology  4 units**
*Acceptable for credit: CSU, UC*  
Advisory: Eligibility for MATH 311  
An elementary course in the principles of physical geology including identification of rocks and minerals, study and interpretation of topographic and geological maps and the study of land forms and structures. Includes a local field trip.  
(F,S) (GR/P/NP)

**GEOL 114 Oceanography  3.5 units**
*Acceptable for credit: CSU, UC*  
An introduction to the physical and biological aspects of the marine environment, including processes of heat transfer, tides, currents, waves, life in the marine ecosystem, geological processes of shorelines, deep-sea geology, plate tectonics and marine economic resources. Includes field trips to local coastal areas.  
(F,S) (GR/P/NP)

**GEOL 131 Geology of California  3 units**
*Acceptable for credit: CSU, UC*  
An overview of the geologic features and history of California emphasizing an understanding of California’s past and present plate tectonic setting, unique landscape features, resources and hazards.  
(F,S) (GR/P/NP)

**GEOL 141 Environmental Geology  3 units**
*Acceptable for credit: CSU, UC*  
A study of humankind’s scientific, social and ethical interactions with earth systems. Topics include earth processes, geologic hazards, the earth’s renewable and non-renewable resources and the earth’s ability to accept the products of human waste. This course is not open to students who are enrolled in or have received credit for ENVS 102.  
(F,S) (GR/P/NP)

**GEOL 179 Experimental Courses in Geology  0.5 to 10 units**
*Acceptable for credit: CSU, UC-DAT*  
For course description, see "Experimental Courses."

**GEOL 189 Independent Projects in Geology  1 to 3 units**
*Acceptable for credit: CSU, UC-DAT*  
For course description, see "Independent Projects."

**GEOL 199 Special Topics in Geology  0.05 – 3 units**
*Acceptable for credit: CSU*  
For course description, see “Special Topics.”
GLOBAL STUDIES

GBST 101 Introduction to Global Studies 3 units
Acceptable for credit: CSU, UC
Introduction to the phenomenon of globalization and a broad range of cultural, economic, political and social issues confronting the globalized world today. Structured around three thematic categories: (1) culture and society, (2) governance and conflict, and (3) integrating economic systems – designed to explore multifaceted connections among nation-states: nongovernmental organizations; ethnic, cultural, and religious groups; and populations around the world. (F, S) (GR/P/NP)

GBST 141 Global Economics 3 units
Acceptable for credit: CSU, UC
Advisory: Completion or concurrent enrollment in ECON 101 or ECON 102 or ECON 121 or BUS 121
An introduction to international economic issues. Explores why countries trade and addresses the consequences of trade restrictions. Alternative exchange rate systems, factors that cause exchange-rate fluctuations and the determinants of a country’s balance of trade are covered. Other topics include the politics of trade policy, the impact of trade on the job market, the role of international institutions in the global economy, financial crises, global environmental issues and international debt problems. This course is not open to students who are enrolled in or have received credit for BUS 141 or ECON 141. (F, S) (GR/P/NP)

GRAPHICS

GRPH 108 Design 1 on the Computer 3 units
Acceptable for credit: CSU
A basic study of visual design elements and principles, using the computer. This course is not open to students who are enrolled in or have received credit for ART 108. (F, S) (GR/P/NP)

GRPH 110 Intro to Graphic Design 3 units
Acceptable for credit: CSU
Prerequisite: ART 110 or PHTO 110
An introduction to the theories, principles and techniques of graphic communication as used in commercially printed design, including practice in solving practical visual communications problems from concept to finished product. (F, S) (GR/P/NP)

GRPH 111 Electronic Imagery Lab 1 unit
Course may be repeated one time.
Acceptable for credit: CSU
Prerequisite: GRPH 111
Covers the use of color Apple Macintosh computers, color scanners and a variety of black/white and color printers. Students will explore aspects of desktop publishing, illustration, photographic image manipulation and still video capture. (F, S) (GR/P/NP)

GRPH 112 Basic Electronic Imagery 3 units
Acceptable for credit: CSU
Corequisite: GRPH 111
Introduces students to the use of computers in graphic design, photography and video program development.

Students will explore desktop publishing, photographic image manipulation, illustration and still video manipulation. (F, S) (GR/P/NP)

GRPH 113 Computer Illustration 3 units
Acceptable for credit: CSU
Advisory: GRPH 112 is strongly recommended.
An intermediate course in computer imaging utilizing illustration, paint and photo-retouch software. Students will explore the electronic image manipulation of original and scanned art and graphic design work in black and white and color. (F, S) (GR/P/NP)

GRPH 114 Computer Image Lab 1 unit
Acceptable for credit: CSU
Prerequisite: GRPH 113
Lab work in computer imaging utilizing illustration, paint and photo-retouch software. Students will explore the electronic image manipulation of original and scanned art and graphic design work in black and white and color. (F, S) (GR/P/NP)

GRPH 115 Graphics Art Preparation 3 units
Acceptable for credit: CSU
Computer graphic preparation of single and multi-color art and photography for printing and electronic publishing. Included are modern strategies in desktop publishing for products such as brochures and booklets. (F, S) (GR/P/NP)

GRPH 116 Digital Portfolio 3 units
Acceptable for credit: CSU
A study of the application of major digital presentation techniques used in developing effective, professional portfolios in the graphics, photography, computer fine art, architecture, engineering, marketing and manufacturing industries. Topics include electronic presentations using programs such as PhotoShop and Acrobat. (F, S) (GR/P/NP)

GRPH 118 Intro to Web Graphics 3 units
Acceptable for credit: CSU
Advisory: GRPH 111 and GRPH 112
Explores the transition from desktop publishing to publishing on the Internet. Topics include computer preparation and optimization of text and imagery that contribute to website content. Dynamic Web page design that promotes interactivity and efficient navigation is stressed. Skills developed in GRPH 111 and GRPH 112 are expanded and enhanced. (F, S) (GR/P/NP)

GRPH 120 Desktop/Commercial Repro 3 units
Acceptable for credit: CSU
Prerequisite: ART 110 or PHTO 110, or GRPH 115
Provides basic technical training in how desktop publishing translates into commercial printing. Both traditional and digital production skills are used in duplication and offset printing processes. The lab experiences allow for the application of skills learned in GRPH 115 in a practical working environment. (F, S) (GR/P/NP)

GRPH 130 3D Modeling for Product Design 3 units
Acceptable for credit: CSU
Advisory: GRPH 112 or GRPH 113
3D modeling for industrial design and animation. Wire frame design operations for three-dimensional objects will be stressed in a 3D program such as Maya. (F, S) (GR/P/NP)
on ideas, events and discoveries that have shaped our world civilizations from the 16th century to the present. Focus is on expansion, contraction and conflicts of the major world An interdisciplinary, multicultural exploration of the development of the civilizations of East Asia from their origins through the 20th century including China, Japan and Southeast Asia. Important ideas, events and discoveries are explored through literature, folklore, art history, philosophy and science. This course is not open to students who are enrolled in or have received credit for HUM 103.

HIST 103 East Asian Civilization 3 units
Acceptable for credit: CSU, UC
An interdisciplinary, multicultural exploration of the development of the civilizations of East Asia from their origins through the 20th century including China, Japan and Southeast Asia. Important ideas, events and discoveries are explored through literature, folklore, art history, philosophy and science. This course is not open to students who are enrolled in or have received credit for HUM 103.

HIST 104 Western Civilization to 1650 3 units
Acceptable for credit: CSU, UC
Surveys the origins, development and characteristics of Western civilization from earliest times through the period of European exploration and colonization, emphasizing main currents in political, economic, social, intellectual and scientific history. An effort is made to include some study of the "non-West." This course is not open to students who are enrolled in or have received credit for HUM 104.

HIST 105 Western Civilization Since 1650 3 units
Acceptable for credit: CSU, UC
Surveys the development and characteristics of Western civilization from 1600 to the present, emphasizing main currents in political, economic, social, intellectual and scientific history. Some study of the "non-West" is included. This course is not open to students who are enrolled in or have received credit for HUM 105.

HIST 107 U S History to 1877 3 units
Acceptable for credit: CSU, UC-CL
A survey of United States history (New World exploration to 1877) and its method of research through critical thinking involving the economic, political, international and ethnic factors fundamental for understanding the nation's origins and early development.

HIST 108 U S History 1877 to Present 3 units
Acceptable for credit: CSU, UC-CL
A survey of United States history (1877 to the present) through philosophic systems as related to critical thinking involving the political, ethnic, economic and international factors fundamental for understanding the nation's growth since the Civil War.

HIST 109 History of California 3 units
Acceptable for credit: CSU, UC
The history of California from the earliest explorers to the present, with emphasis on major social and cultural themes.
HIST 120 History of the Mexican-American  3 units  
Acceptable for credit: CSU, UC  
A historical survey of the Mexican-American residing in the southwest United States. Reviews the social, economic and political development from the Pre-Columbian period to present, including the interrelationship between histories of the United States and Mexico. (A) (GR/P/NP)

HIST 138 History of Deaf   3 units  
Acceptable for credit: CSU, UC  
A culturally diverse exploration of the deaf from Aristotle to the present. Focus is on the ideas, events and laws that have shaped the community as viewed through literature, folklore, art and philosophy. Interrelationship of societies is emphasized. This course is not open to students who are enrolled in or have received credit for ASL 138. (S) (GR/P/NP)

HIST 179, 379 Experimental Courses in History  0.5 to 10 units  
179 - Acceptable for credit: CSU, UC-DAT  
For course description, see "Experimental Courses."

HIST 189 Independent Projects in History  1 to 3 units  
Acceptable for credit: CSU, UC-DAT  
For course description, see "Independent Projects."

HUM 101 World Civilizations to 1600  3 units  
Acceptable for credit: CSU, UC  
An interdisciplinary, multicultural exploration of the development of the Great civilizations: China/Japan, Egypt, Greece/Rome, India, Mesopotamian and Pre-Columbian. Important ideas, events and discoveries are explored through literature, folklore, art history, philosophy and science. This course is not open to students who are enrolled in or have received credit for HIST 101. (S) (GR/P/NP)

HUM 102 World Civilizations Since 1500  3 units  
Acceptable for credit: CSU, UC  
An interdisciplinary, multicultural exploration of the expansion, contraction and conflicts of the major world civilizations from the 16th century to the present. Focus is on ideas, events and discoveries that have shaped our world as viewed through literature, folklore, art history, philosophy and science. This course is not open to students who are enrolled in or have received credit for HIST 102. (S) (GR/P/NP)

HUM 103 East Asian Civilization  3 units  
Acceptable for credit: CSU, UC  
An interdisciplinary, multicultural exploration of the development of the civilizations of East Asia from their origins through the 20th century including China, Japan and Southeast Asia. Important ideas, events and discoveries are explored through literature, folklore, art history, philosophy and science. This course is not open to students who are enrolled in or have received credit for HIST 103. (F,S,U) (GR/P/NP)

HUM 104 Western Civilization to 1650  3 units  
Acceptable for credit: CSU, UC  
Surveys the origins, development, and characteristics of Western civilization from earliest times through the period of European exploration and colonization, emphasizing main currents in political, economic, social, intellectual, and scientific history. An effort is made to include some study of the "non-West." This course is not open to students who are enrolled in or have received credit for HIST 104. (F,S) (GR/P/NP)

HUM 105 Western Civilization Since 1650  3 units  
Acceptable for credit: CSU, UC  
Surveys the development and characteristics of Western civilization from 1600 to the present, emphasizing main currents in political, economic, social, intellectual and scientific history. Some study of the "non-West" is included. This course is not open to students who are enrolled in or have received credit for HIST 105. (F,S) (GR/P/NP)

HUM 179, 379 Experimental Courses in Humanities  0.5 to 10 units  
179 - Acceptable for credit: CSU, UC-DAT  
For course description, see "Experimental Courses."

HUM 189 Independent Projects in Humanities  1 to 3 units  
Course may be repeated three times.  
Acceptable for credit: CSU, UC-DAT  
For course description, see "Independent Projects."

HUSV 101 Becoming a Helping Professional  3 units  
Acceptable for credit: CSU  
An introduction to a variety of aspects relating to human service helping professions, including required education/training, certification/licensure, ethical/legal issues, motives, values, cultural sensitivity/competency, special populations, life transitions, transference and counter-transference, boundary issues, stress, burnout and self-care. (F,S) (GR/P/NP)

HUSV 102 Case Management of Diverse Clients  3 units  
Acceptable for credit: CSU  
An introduction to basic concepts and skills of case management with diverse populations including cultural competence, ethics, intakes, assessment, case planning, referrals, implementation and documentation. (F,S) (GR/P/NP)

HUSV 103 Basic Counseling Skills  3 units  
Acceptable for credit: CSU  
Introduction to counseling skills for the human services paraprofessional with applications to different work settings and diverse populations. (F,S) (GR/P/NP)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Acceptable for credit:</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSV 104</td>
<td>Group Dynamics</td>
<td>3</td>
<td>CSU, UC</td>
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<td></td>
<td>Explores the process and content of counseling groups and families. Topics include developmental stages of groups, group formation, constructive and ineffective processes, behavioral ground rules, interventions, entry into and exit from groups, ethics, cultural and ethnic diversity, documentation of client behavior and self-awareness in group situations. (F,S) (GR/P/NP)</td>
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<tr>
<td>HUSV 105</td>
<td>Practicum Seminar</td>
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<td>CSU</td>
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<td>Course may be repeated three times. Advisory: Concurrent enrollment in HUSV 120 or 130 or 140 or 150 or 160. Provides students with a seminar format in which to discuss, analyze and critically evaluate their fieldwork experience in local human service agencies. (F,S) (GR)</td>
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<tr>
<td>HUSV 106</td>
<td>Family Systems, Addiction &amp; Trauma</td>
<td>3</td>
<td>CSU</td>
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<td></td>
<td>Examines family systems dynamics and intergenerational transmission of addiction, and the interacting effects of abuse and psychological trauma. (F,S) (GR/P/NP)</td>
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<tr>
<td>HUSV 107</td>
<td>Serving Culturally Diverse Clients</td>
<td>3</td>
<td>CSU</td>
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<td>Examines America’s diverse population and its impact within human services. It provides students with the insight, knowledge and skills necessary to effectively work with a diverse clientele. (F,S) (GR)</td>
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<tr>
<td>HUSV 108</td>
<td>Crisis Intervention</td>
<td>3</td>
<td>CSU</td>
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<td>Training in basic crisis intervention skills and application of these skills to a wide range of issues, situations and settings, including domestic abuse, suicide, sexual assault, death, addiction and post traumatic stress. (F,S) (GR/P/NP)</td>
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<tr>
<td>HUSV 110</td>
<td>Alcohol, Drugs &amp; Addiction</td>
<td>3</td>
<td>CSU</td>
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<td>An overview of the role of alcohol and other drugs in society with emphasis on such topics as patterns of use; major categories of drugs; explanations of use, abuse and dependency; as well as prevention, intervention and treatment. This course is not open to students who are enrolled in or have received credit for SOC 106 or PSY 106. (F,S) (GR)</td>
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<tr>
<td>HUSV 111</td>
<td>Addiction Treatment &amp; Recovery</td>
<td>3</td>
<td>CSU</td>
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<td>Advisory: HUSV 102 or HUSV 103 or HUSV 110 or SOC 106 or PSY 106. A survey of the theory, practice and process of addiction treatment. (F) (GR)</td>
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<tr>
<td>HUSV 112</td>
<td>Gentle Comm Skills for Change</td>
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<td>CSU</td>
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<td>This course presents three gentle, nonconfrontational communication approaches designed to help people change who suffer from substance use, mental health, medical health and lifestyle problems. The course presents theory and provides opportunities to practice these evidence-based communication skills, which include Motivational Interviewing, Nonviolent Communication, and Customer Service strategies. (F,S) (GR/P/NP)</td>
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<tr>
<td>HUSV 113</td>
<td>Women &amp; Addiction</td>
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<td>CSU</td>
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<td>An overview of major issues related to women who use and abuse substances. Topics include effects on pregnancy, drug-exposed children, family relationships, feminist issues, women’s reactions to substances and women’s specific addiction treatment needs. (S) (GR/P/NP)</td>
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<tr>
<td>HUSV 120</td>
<td>Human Services Practicum</td>
<td>2</td>
<td>CSU</td>
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<td>Advisory: Satisfactory completion of all required courses in the degree or certificate prior to enrolling; concurrent enrollment in HUSV 105A or 105B or 105C or 105D. Limitation on Enrollment: To participate in Cooperative Work Experience in HUSV 120: (1) students must be volunteering or working in the social services or interpersonal helping field, (2) students must be able to become involved in new or expanded responsibilities on the job if they are using a job at which they are already employed for this courses, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. Practicum/supervised work experience in a social service or interpersonal helping agency or facility for students seeking the degree or certificate in human services. (F,S) (GR)</td>
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<td>HUSV 122</td>
<td>States of Consciousness</td>
<td>3</td>
<td>CSU</td>
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<td>An exploration of different states of consciousness, the means of attaining those states, their uses, misuses and consequences. Topics include theories of consciousness, substance use and abuse, sleep, dreams, hypnosis, dissociation, out-of-body states, near-death experiences, psychic and paranormal phenomena, religious ecstasy and conversion, alternative religions, meditation and prayer, culture-bound syndromes, non-Western methods of altering consciousness and peak experiences. This course is not open to students who are enrolled in or who have received credit for PSY 122 or ANTH 122. (F,S) (GR)</td>
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<tr>
<td>HUSV 124</td>
<td>Substance Abuse Prevention</td>
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<td>CSU</td>
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<td>An introduction to substance abuse prevention and education, including an overview of drugs of abuse and addiction (including alcohol, tobacco and both legal and illegal drugs) and the personal and social consequences of their use. Consideration of a broad range of approaches to education and prevention; examination of government and policy issues related to prevention; description of the design and conduct of research aimed at assessing needs and evaluating program effectiveness; and presentation of interventions aimed at reducing adverse consequences of substance use and abuse are also covered. (F,S) (GR/P/NP)</td>
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<tr>
<td>HUSV 126</td>
<td>Meditation/Mindfulness/Relaxation</td>
<td>3</td>
<td>CSU</td>
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<td>An introduction to the practices of meditation, mindfulness and relaxation, including their origins in both Western and non-Western cultures, and their physiological and psychological benefits. (F,S) (GR/P/NP)</td>
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</table>
HUSV 127 Emotional Intelligence  3 units
Acceptable for credit:  CSU
An introduction to emotional intelligence – a set of abilities and skills concerned with perceiving and managing emotional states in oneself and others. The neurobiology of emotions, how emotional states “hijack” people’s behavior and the application of emotional intelligence in a variety of personal and interpersonal situations are emphasized. This course is not open to students who are enrolled in or who have received credit for PSY 127. (F,S) (GR/P/NP)

HUSV 128 Positive Psychology  3 units
Acceptable for credit:  CSU
An introduction to the psychological study of the positive, adaptive, creative and emotionally fulfilling elements of human behavior and the factors that contribute to people being happy, productive and well adjusted. This course is not open to students who are enrolled in or who have received credit for PSY 128. (F,S) (GR/P/NP)

HUSV 130 Addiction Studies Practicum  2 to 4 units
Course may be repeated one time.
Acceptable for credit:  CSU
Advisory: Satisfactory completion of all required courses in the degree or certificate prior to enrolling; concurrent enrollment in HUSV 105A or 105B or 105C or 105D. Limitation on Enrollment: To participate in Cooperative Work Experience in HUSV 130AB: (1) students must be volunteering or working in the addiction treatment field, (2) students must be able to become involved in new or expanded responsibilities on the job if they are using a job at which they are already employed for this courses, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. Practicum/supervised work experience in a certified addiction treatment program students seeking the degree or certificate Addiction Studies; 4 units/250-300 hours required; may be completed in one semester, or in two semesters by repeating the course to reach 250-300 hours. (F,S) (GR)

HUSV 132 Drugs, the Brain and the Body  3 units
Acceptable for credit:  CSU, UC
Advisory: HUSV 110 or SOC 106 or PSY 106 is strongly recommended.
Overview of the pharmacology of drugs of abuse with emphasis on drug effects, how drug effects occur, how the body processes drugs and health consequences of drug abuse. Physiologic aspects of addiction and tolerance are explored. Pharmacologic interventions are integrated with other substance abuse modalities. This course is not open to students who are enrolled in or have received credit for PSY 132. (F) (GR)

HUSV 140 Co-occurring Disorders Practicum  2 units
Acceptable for credit:  CSU
Advisory: Satisfactory completion of all required courses in the degree or certificate prior to enrolling; concurrent enrollment in HUSV 105A or 105B or 105C or 105D
Limitation on Enrollment: To participate in Cooperative Work Experience in HUSDV 140: (1) students must be volunteering or working at a job in the social services or interpersonal helping field focusing on the needs of persons with co-occurring substance use and mental disorders, (2) students must be able to become involved in new or expanded responsibilities on the job if they are using a job at which they are already employed for this courses, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. Practicum/supervised work experience in a social service or interpersonal helping or related agency or facility that focuses on the needs of families and children for students seeking the certificate in Family Studies; 2 units/125-150 hours required. (F,S) (GR)

HUSV 142 Co-occurring Disorders: Engagement  3 units
Acceptable for credit:  CSU
Concepts, definitions and features of co-occurring mental health and substance use disorders emphasizing attainment of empathic engagement with persons who have these disorders. This course is not open to students who are enrolled in or have received credit for PSY 142. (F,S) (GR/P/NP)

HUSV 143 Co-occurring Disorders: Treatment  3 units
Acceptable for credit:  CSU
Advisory: Completion of or concurrent enrollment in HUSV 142 or PSY 142
A study of the treatment of persons who have both psychiatric problems and alcohol or other drug use problems. This course is not open to students who are enrolled in or have received credit for PSY 143. (F,S) (GR/P/NP)

HUSV 144 Twelve Step Facilitation  3 units
Acceptable for credit:  CSU
An introduction to the history, principles and practices of Twelve Step self-help fellowship programs using both lecture and experiential approaches; intended to assist students in utilizing the Twelve Step approach for personal issues and/or provide helping professionals with a solid grounding in this evidence-based approach so that they can better serve clients who are members of Twelve Step fellowships or appropriately refer and encourage clients who would benefit from this approach. (F) (GR/P/NP)

HUSV 150 Family Studies Practicum  2 units
Acceptable for credit:  CSU
Advisory: Satisfactory completion of all required courses in the degree or certificate prior to enrolling; concurrent enrollment in HUSV 105A or 105B or 105C or 105D
Limitation on Enrollment: To participate in Cooperative Work Experience in HUSV 150: (1) students must be volunteering or working at a job in the social services or interpersonal helping field focusing on the needs of families and children, (2) students must be able to become involved in new or expanded responsibilities on the job if they are using a job at which they are already employed for this courses, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. Practicum/supervised work experience in a social service or interpersonal helping or related agency or facility that focuses on the needs of families and children for students seeking the certificate in Family Studies; 2 units/125-150 hours required. (F,S) (GR)
HUSV 160 Family Services Worker 2 Practicum
2 units
Acceptable for credit: CSU
Advisory: Satisfactory completion of all required courses in the degree or certificate prior to enrolling; concurrent enrollment in HUSV 105A or 105B or 105C or 105D
Limitation on Enrollment: To participate in Cooperative Work Experience in HUSDV 160: (1) students must be volunteering or working at a job in the social services or interpersonal helping field focusing on the needs of families and children, (2) students must be able to become involved in new or expanded responsibilities on the job if they are using a job at which they are already employed for this course, (3) the developer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities.
Practicum/supervised work experience in a social service or interpersonal helping or related agency or facility that focuses on the needs of families and children for students seeking the Family Services Worker 2 certificate; 2 units/125-150 hours required. (F,S) (GR)

HUSV 179 Experimental Courses in Human Services
0.5 to 10 units
Acceptable for credit: CSU, UC-DAT
For course description, see “Experimental Courses.”

HUSV 189 Independent Projects in Human Services
1 to 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Independent Projects.”

ITALIAN
ITAL 101 Elementary Italian
5 units
Acceptable for credit: CSU, UC
Prerequisite: ITAL 103
An introduction to current Italian, stressing pronouncing, understanding, speaking, writing and reading the language. In a question and answer format, students receive oral and written practice in sentence structure, vocabulary and idiomatic Italian. Includes an introduction to some cultural aspects of Italy. (F,S,U) (GR/P/NP)

ITAL 102 Elementary Italian
5 units
Acceptable for credit: CSU, UC
Prerequisite: ITAL 101
A continuation of ITAL 101 emphasizing oral and written participation. Continues the cultural introduction to some aspects of Italian history, art, music, customs and folklore. (F,S) (GR/P/NP)

ITAL 103 Intermediate Italian
5 units
Acceptable for credit: CSU, UC
Prerequisite: ITAL 102
A review of Italian grammar, with practice in reading, writing and conversation. Aspects of the Italian culture and history are also studied. (F,S) (GR/P/NP)

ITAL 104 Intermediate Italian
5 units
Acceptable for credit: CSU, UC
Prerequisite: ITAL 103
A review of advanced grammar with increased practice in reading, writing and speaking Italian. The study of Italian culture and history begun in ITAL 103 is expanded and contemporary Italian literature is introduced. (F,S) (GR/P/NP)

ITAL 189 Independent Projects in Italian
1 to 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Independent Projects.”

INDEPENDENT PROJECTS
189, 389 ABCD Independent Projects
1 to 3 units
Course may be repeated three times.
189 - Acceptable for credit: CSU, UC-DAT
Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines.
Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Admissions & Records Office no later than the end of the second week of the semester.
Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline.
Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline and are based on the following formula:

- 1 unit - 48 hours per semester
- 2 units - 96 hours per semester
- 3 units - 144 hours per semester

(Gr/P/NP)
LATIN

LATN 101 Elementary Latin 3 units
Acceptable for credit: CSU
An introductory transfer-level course emphasizing sentence structure in reading, writing, listening and oral skills. Explores the importance of Latin in literature, modern languages, history, law, medicine and science. (F,S) (GR/P/NP)

LAW ENFORCEMENT

LE 310 Intro to LE Academy (Pre-Academy) 0.5 unit
Course may be repeated three times.
Limitation on enrollment: Admission by application.
An orientation course designed to prepare students for the Law Enforcement Academy. A series of self-assessment activities and exercises will help students understand the academy challenges and requirements. This course is presented in a rigorous and disciplined training environment. Students will participate in activities designed to simulate the Allan Hancock College Law Enforcement Academy to assess individual emotional, mental and physical readiness for the academy. Students with pre-existing injuries or disabilities or who have physical, emotional or mental limitations should contact the course coordinator or college student services office for advisement. (GR)

LE 318 Traffic Collision Investigation 1.5 units
This P.O.S.T. certified course provides field officers with advanced knowledge and skills for investigating traffic collisions. Emphasis will be on documenting information and evidence at the collision scene. Participants will learn and demonstrate in practical simulations effective procedures for conducting preliminary traffic collision investigations. The course satisfies the mandates of California Vehicle Code 40600(a). (F,S) (GR)

LE 320 Basic Law Enforcement Academy 14 units
Limitation on enrollment: Admission by application.
A course designed to satisfy all State of California requirements for basic police recruit training. Presented in an environment of serious study, rigorous physical training and standard law enforcement disciplinary procedures, the course is open to working peace officers and other interested students. (F,S) (GR)

LE 321 Basic Law Enforcement Academy 7 units
Limitation on enrollment: Admission by application
Advisory: Eligibility for ENGL 101 or ENGL 301
The first in a two-course sequence designed to satisfy all State of California requirements for basic law enforcement officer training. The academy is presented in an environment of serious study, rigorous physical training and standard law enforcement disciplinary procedures. (F) (GR)

LE 322 Basic Law Enforcement Academy 7 units
Prerequisite: AJ 321 or LE 321
A continuation of LE 321. Designed to complete the training requirements to satisfy the Basic Law Enforcement Training as established by the California Commission on Peace Officer Standards and Training. Academic, manipulative and technical training are presented in an environment of serious study, rigorous physical training, and standard law enforcement disciplinary procedures. (S) (GR)

LE 329 State Hospital Peace Officer 7 units
Limitation on enrollment: State-required minimum qualifications for employment as a State Hospital Peace Officer
This 360-hour course delivered over nine weeks provides the student with the basic knowledge and skills for entry into the on-the-job training program for peace officers at Atascadero State Hospital. The course is presented in an atmosphere of serious study and standard law enforcement discipline. (GR)

LE 341 EVOC/Non-Law Enforcement 0.5 unit
An emergency vehicle operators course for those working in non-law enforcement public safety disciplines. The student will learn defensive driving and handling techniques in the classroom setting and through field examples. (F) (GR)

LE 351 Field Training Officer 2.5 units
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.
This P.O.S.T. certification 24-hour course meets the requirements for Field Training Officers assigned to P.O.S.T. approved Field Training Programs. F.T.O.s will receive update information and methods regarding teaching and training skills, leadership, ethics, legal requirements, standardized evaluation guidelines and current curriculum and methods used in Law Enforcement Academy. (GR)

LE 352 Field Training Officer Update 1.5 units
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.
This P.O.S.T. certified 24-hour course meets the triannual update requirements for Field Training Officers assigned in P.O.S.T. certified Field Training Programs. F.T.O.s will receive update information and methods regarding teaching and training skills, leadership, ethics, legal requirements, standardized evaluation guidelines and current curriculum and methods used in Law Enforcement Academy. (GR)

LE 353 Field Training Administrator 1.5 units
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.
This P.O.S.T. certified 24-hour course meets the requirements for law enforcement agency personnel assigned as Supervisors, Administrators, or Coordinator (S.A.C.s) of P.O.S.T. approved Field Training Programs. Course curriculum includes P.O.S.T. requirements, roles and responsibilities, contemporary adult learning, legal and liability issues, evaluations and documentation and program management methods and strategies. (GR)

LE 354 Training Management Update 1.5 units
Limitation on enrollment: State required minimum professional education to qualify as a fully trained, professional law enforcement office or appointment as a law enforcement agency training manager.
This P.O.S.T. certified 24-hour course is designed to update the law enforcement agency training manager or coordinator with changes in regulation and case law, challenges, opportunities, and trends in the training environment.
LE 355 Leadership Development  2.5 units
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.

This P.O.S.T. certified 40-hour course is designed to prepare students for a leadership position within a law enforcement agency. It is offered in two formats one day per month for five months, or five consecutive days. Course curriculum includes leadership concepts and roles, organizational change, liability issues, performance evaluations, disciplinary processes, group dynamics, ethical decision making, community policing and oral board preparation and exercise. (GR)

LE 356 Crime Scene Investigation  2 units
This P.O.S.T. certified course provides advanced instruction and "hands-on" application in photographing, protecting, processing, and documenting crime scenes as well as the proper methods of the handling of associated physical evidence. This course satisfies the requirement for the universal elective for ICI certification pursuant to California Penal Code 13519.9. (F,S) (GR)

LE 357 Instructor Development  2.5 units
Course may be repeated 99 times
Limitation on enrollment: Must meet minimum state requirements for teaching in a Law Enforcement Academy.

This P.O.S.T. certified 40-hour course provides the essential instructional and facilitation skills and strategies for those interested in being an instructor in a law enforcement or public safety related training program. The P.O.S.T. Academy Instructor Certification Course (A.I.C.C.) meets the initial training requirement for instructors in the regular basic course (Law Enforcement Academy) as well as the tri-annual recertification training requirement. (GR)

LE 358 Drug Abuse Recognition  1.5 units
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.

This P.O.S.T. certified 24-hour course is designed to instruct in-service peace officers how to detect, identify and investigate the most commonly abused prescription drugs with an emphasis on pharmaceutical stimulants, anti-depressants and opioids. Students will learn investigative techniques and available resources to aid in the detection of prescription fraud and the identification of the various types of prescription offenders. (GR)

LE 360 Arrest & Control/EVOC  0.5 unit
Course may be repeated 99 times
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.

Short-term training courses focusing on specialized law enforcement instruction in arrest and control and emergency vehicle operations. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. On-the-track driving is used. May be repeated as often as necessary for purposes of recertification. (GR/P/NP)

LE 361 Force Options Simulator/EVOC  0.5 unit
Course may be repeated 99 times
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.

Short-term training courses focusing on specialized law enforcement instruction in force operations simulator and emergency vehicle operations. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. May be repeated as often as necessary for purposes of recertification. (GR/P/NP)

LE 362 LE Driving Simulator/EVOC  0.5 unit
Course may be repeated 99 times
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.

Short-term training courses focusing on specialized law enforcement technology in law enforcement driving simulators and emergency vehicle operations. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. On-the-track driving and driving simulators are used. May be repeated as often as necessary for purposes of recertification. (GR/P/NP)

LE 363 Force Ops Sim/Arest & Control  0.5 unit
Course may be repeated 99 times
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.

Short-term training courses focusing on specialized law enforcement instruction in force options simulator and arrest and control techniques. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. May be repeated as often as necessary for purposes of recertification. (GR/P/NP)

LE 364 LE Driving Sim/Arest & Control  0.5 unit
Course may be repeated 99 times
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.

Short-term training courses focusing on specialized law enforcement instructions in law enforcement driving simulator and arrest and control techniques. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. May be repeated as often as necessary for purposes of recertification. (GR/P/NP)

LE 365 LE Driving Sim/Force Ops Sim  0.5 unit
Course may be repeated 99 times
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer.

Short-term training courses focusing on specialized law enforcement technology in law enforcement driving simulators and force operations simulators. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. May be repeated as often as necessary for purposes of recertification. (GR/P/NP)
LE 366 EVOC 0.5 or 1 unit
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer. This course focuses on law enforcement emergency vehicle operations. Topics will be identified on a periodic basis in conjunction with law enforcement agencies. (GR/P/NP)

LE 367 Arrest & Control 0.5 or 1 unit
Course may be repeated 99 times
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained professional law enforcement officer. Course consists of a comprehensive update and review of arrest and control skills and methods, including safety, liability, control techniques, handcuffing and searching, grappling and pugilistic. Variable unit range course. (GR/P/NP)

LE 369, 479 Experimental Courses in Law Enforcement 0.5 to 10 units
For course description, see "Experimental Courses."

LE 370 Arrest & Control Instructor Update 1.5 unit
Course may be repeated 99 times
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained, professional law enforcement arrest and control skills instructor pursuant to P.O.S.T regulations 1070/1082. Course consists of review and update of arrest and control skills, teaching and training methods including safety, liability, control techniques, handcuffing and searching, grappling and pugilistic. Previous state certification as an Arrest & Control Instructor is required. May be repeated as often as necessary for purposes of recertification. (GR)

LE 371 Arrest & Control Instructor Cert 2.5 unit
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained, professional law enforcement officer. Freedom from illness or disability that would prevent the student from safely performing the required exercises and physical skills demonstrations and assessments. This P.O.S.T. certified course is designed to prepare the student as an instructor in arrest and control methods and meets the P.O.S.T. training requirements for Arrest & Control Instructor pursuant to regulations 10/70/1082 for arrest and control courses. (GR)

LE 372 Physical Training Instructor 2.5 unit
Limitation on enrollment: State-required minimum professional education to qualify as a fully trained, professional law enforcement officer. Freedom from illness or disability that would prevent the student from safely performing the required exercises and physical skill demonstration and assessments. This P.O.S.T. certified course is designed to prepare the student as an instructor in physical training methods and meets the P.O.S.T. training requirements for Law Enforcement Basic Academy Physical Training Instructors pursuant to regulation 1070/1082 for the regular basic course. (GR)

LE 379, 479 Experimental Courses in Law Enforcement 0.5 to 10 units
For course description, see "Experimental Courses."

LE 399, 499 Special Topics in Law Enforcement 0.5 to 10 units
For course description, see "Experimental Courses."

LE 421 Complaint Dispatcher 4.5 units
Emphasizes the responsibilities and tasks of the public safety dispatcher in law enforcement and fire agencies. Students learn and demonstrate in practical simulations acceptable telephone and radio procedures as well as effective decision-making. (F,S) (GR)

LE 424 PC 832 Arrest 2.5 units
Limitation on enrollment: Freedom from illness or disability that would prevent the student from safely performing the required arrest and control physical skills. This course is a survey of the laws of arrest, search and seizure and use of force. Course includes skill development and assessment of physical arrest and control methods. Meets all requirements for certification under California Penal Code section 832 in laws and methods of arrest for limited function peace officers and other public officers as required by statute. (F,S,U) (GR)

LE 425 PC 832 Firearms 1.5 units
Limitation on enrollment: Freedom from illness or disability that would prevent the student from safely participating in live shooting activities. Students not employed (as a peace officer) or sponsored by a California law enforcement agency are required to obtain a CA DOJ Firearms Clearance (PC13411.5). This course is a basic knowledge and skills course in firearms for peace officers newly assigned to carry a firearm in the course of their duties. Course includes skill development and assessment of fundamentals of shooting, firearms nomenclature, maintenance and safety. Meets requirements for certification under California Penal Code section 832 for limited function peace officers to carry and use firearms as required by statute. Presented over three consecutive days including two full days on a local firing range. (F,S,U) (GR)

LE 440 Advanced Driving Skills I 0.5 unit
This course is designed to improve basic driving skills to include defensive driving techniques, collision avoidance, slow speed precision driving maneuvers and driving simulator practice. Students are required to study the California Driver Handbook prior to the class and bring the California Driver Handbook to the class. (F,S,U) (GR/P/NP)

LE 441 Advanced Driving Skills II 0.5 unit
Prerequisite: LE 440 or AJ 440
This course is designed to reinforce basic driving skills in addition to advanced simulator training and vehicle control techniques to include skid control, braking, acceleration and turning. Students are required to study the California Driver Handbook prior to the class and bring the California Driver Handbook to the class. (F,S,U) (GR/P/NP)

LE 480 Women in Public Safety Careers 3 units
This course is designed to prepare women for successful completion of a Public Safety Basic Academy in Law Enforcement, Fire Technology or Emergency Medical Services. This course will focus on physical, academic, emotional and psychological preparation. (F,S,) (GR/P/NP)
## LEADERSHIP

### LDER 111 Principles & Practices of Student Government

3 units  
Course may be repeated one time.  
Acceptable for credit: CSU  
An introduction to leadership and skills associated with effective leadership. Topics include parliamentary procedure, group dynamics, planning and conducting activities. Self awareness, cultural differences, ethics, communications skills, motivation, delegation and time management as related to organizational structure are emphasized. (GR/P/NP)

### LDER 112 Practice/Application of Leadership Principles

3 units  
Course may be repeated one time.  
Acceptable for credit: CSU  
Prerequisite: LDER 111  
Provides an opportunity for students to enhance and apply leadership skills and practice peer mentoring. Communication, team building and activity/event planning are emphasized. Participation in AGSB meetings and activities is required. (GR/P/NP)

## LEARNING SKILLS

### LS 101 Success In College

3 units  
Acceptable for credit: CSU  
Considers individual development with the goal of increasing knowledge of self and others within the college. Topics include self knowledge and assessment, learning to learn and making the best use of college resources. This course is not open to students who are enrolled in or have received credit for PD 101 or PD 105. (GR/P/NP)

### LS 189 Independent Projects

1 unit  
Acceptable for credit: CSU, UC  
For course description, see "Independent Projects."

### LS 312 Adapted Computer Skills

2 units  
An overview of adaptive computer technologies for students with a variety of learning, physical and/or visual disabilities.  
(F,S) (GR/P/NP)

### LS 501 Individual Learning Assessment

1 unit  
Prerequisite: Referral and/or prior history of learning disability.  
A course involving individualized assessment for students whose learning styles have impeded academic performance in traditional educational settings. Emphasis is on assessing cognitive and academic strengths and weaknesses.  
(F,S) (P/NP)

## LIBRARY

### LBRY 170 Library Research Methods

2 units  
Acceptable for credit: CSU, UC  
Advisory: Completion of or eligibility for ENGL 300 or ENGL 513  
Prepares effective methods for library research to locate, critically evaluate and ethically use information from a variety of print, non-print and online resources. Students will learn research skills and strategies for college terms papers and life-long learning while exploring the changing world of information. (F,S) (P/NP)

## MACHINE TECHNOLOGY

### MT 109 Survey of Machining

4 units  
Acceptable for credit: CSU  
A basic course in machine technology where students will learn tool geometry, blueprint reading, shop math, use of precision measuring tools, drill grinding and safe operation of conventional drill presses, lathes and mills. Included is an introduction to CNC technology. (F,S) (GR/P/NP)

### MT 110 CNC Principles and Practices

4 units  
Acceptable for credit: CSU  
Prerequisite: MT 109  
This course is a study of the use and care of computer numerical controlled (CNC) lathes, routers and milling machines. Included are advanced shop mathematics, tools path creation, coordinate system principles and an introduction to Computer Aided Design and Manufacturing. (F,S) (GR/P/NP)

### MT 179, 379 Experimental Courses in Machine Technology

0.5 to 10 units  
179 - Acceptable for credit: CSU, UC-DAT  
For course description, see "Experimental Courses."

### MT 189 Independent Projects in Machine Technology

1 to 3 units  
Course may be repeated three times.  
Acceptable for credit: CSU, UC-DAT  
For course description, see "Independent Projects."

### MT 305 Select Machine Projects

2 units  
Course may be repeated two times.  
Prerequisite: MT 109  
Projects selected by the student upon the recommendation of any faculty member are developed under the direct counseling and guidance of the instructional staff in the machine technology disciplines. All work is completed within the machine facilities under the direct supervision of the responsible instructor. The student will develop the skills necessary to complete the project. (F,S) (GR/P/NP)

### MT 311 Mastercam 1 (CAD/CAM)

4 units  
This is a study in the principles of two-dimensional Computer Aided Design and Manufacturing (CAD/CAM) covering design and tool path creation for CNC lathes, mills and routers using Mastercam. The course will include an introduction to surfaces and solid modeling. (F,S) (GR/P/NP)

### MT 312 Lean Manufacturing

1 unit  
This course is a study in Lean Manufacturing. Guest speakers from manufacturing operations and academia will present on lean manufacturing and related manufacturing process. (F,S) (GR/P/NP)
MT 315 Advanced Machining  4 units
Course may be repeated seven times.
Prerequisite: MT 110
An individualized course of instruction covering those skills required for employment in a manufacturing machining facility, general machining facility or a maintenance machining facility. The student will select 4, 8, 12 or 16 units from the appropriate skill cluster table (available in the Counseling Center). (F,S) (GR/P/NP)

MT 330 Print Reading & Interpretation  3 units
Prepares students to read engineering drawings and specifications and to enable them to understand the intent of the engineer by interpreting the relationship of two-dimensional drawings with respect to actual objects or projects. This course is not open to students who are enrolled in or have received credit for AB 330 or AT 330 or ET 330. (A) (GR/P/NP)

MT 381 Industrial Mathematics  3 units
Advisory: Eligibility for MATH 511
Designed as the basic mathematics class for the industrial and engineering technology student wishing to gain proficiency in the applications of mathematics to practical situations, including percentage, area, volume, and speed ratios of equipment, horsepower, and the essentials of plane trigonometry. This course is not open to students who are enrolled in or have received credit for AB 381 or AT 381 or ET 381 or WLDT 381. (F,S) (GR)

MATH 100 Nature of Modern Mathematics  3 units
Acceptable for credit: CSU
Prerequisite: MATH 331 or MATH 333/334
A study of contemporary topics in mathematics including statistics, social choice, management science and geometric and algebraic patterns. (S) (GR/P/NP)

MATH 105 Mathematics for Teachers  4 units
Acceptable for credit: CSU, UC
Prerequisite: Math 331 or MATH 333/334
Advisory: Completion of or concurrent enrollment in ENGL 101
A study of basic concepts of mathematics required for the liberal studies major and the multiple subject teaching credential. It is recommended for current elementary and junior high school teachers. It is also recommended for the career technical single subject education credential candidate. Topics include development of critical thinking, set theory, logic, numeration systems, the set of integers, elementary number theory, the set of rational numbers, the set of real numbers and measurement of geometric figures. (F,S) (GR)

MATH 121 Trigonometry  3 units
Acceptable for credit: CSU
Prerequisite: MATH 321 and (MATH 331 or MATH 333/334)
Advisory: MATH 310
The study of directed angles, degree/radian measures of angles, trigonometric functions of angles and of numbers, solutions of right and oblique triangles, identities, functions of composite angles, graphs, equations, inverse functions, vectors and complex numbers. (F,S) (GR)

MATH 123 Elementary Statistics  4 units
Acceptable for credit: CSU, UC - CL
Prerequisite: MATH 331 or MATH 333/334
A study of descriptive and inferential statistics including applications in the behavioral and natural sciences. Topics include classification and analysis of data, probability, distributions, sampling, the binomial, normal, t, F, and chi-square distributions, confidence intervals, hypothesis testing, regression analysis, analysis of variance and non-parametric methods. Calculators and/or computers will be used throughout. (F,S, U) (GR)

MATH 131 College Algebra  3 units
Acceptable for credit: CSU, UC - CL
Prerequisite: MATH 321 and (MATH 331 or MATH 333/334)
Advisory: MATH 310
A study of functions and their inverses from graphical, numerical, analytical and applied perspectives. Includes mathematical modeling with polynomial, rational, exponential and logarithmic functions. Systems of equations, matrices, conic sections, sequences and series, and mathematical induction are also covered. (F,S, U) (GR)

MATH 135 Calculus with Applications  4 units
Acceptable for credit: CSU, UC - CL
Prerequisite: MATH 131 or MATH 141
Techniques of calculus as applied to problem-solving in business and social, behavioral and natural sciences, including limits, continuity, differentiation and integration in one and several dimensions, optimization, transcendental functions and the use of computing technology. (F,S) (GR)

MATH 141 Precalculus  5 units
Acceptable for credit: CSU, UC - CL
Prerequisite: MATH 321 and (MATH 331 or MATH 333/334)
Advisory: MATH 310
Preparation for the calculus sequence, including algebra, functions and graphs, trigonometry, systems of equations and inequalities, sequences and series, analytic geometry and applications. This is an accelerated one semester alternative to the two semesters of Trigonometry (MATH 121) and College Algebra (MATH 131). (F,S,U) (GR)

MATH 181 Calculus 1  5 units
Acceptable for credit: CSU, UC - CL
Prerequisite: (MATH 121 and MATH 131) or MATH 141
The first in a two-semester sequence comprising first year calculus. Topics include functions, limits, continuity, the derivative, differentiation of algebraic, trigonometric and transcendental functions, applications of differentiation, the definite integral and the use of technology to solve calculus problems. (F,S,U) (GR)
MATH 182 Calculus 2  5 units
Acceptable for credit: CSU, UC
Prerequisite: MATH 181
The second in a two-semester sequence comprising first year calculus. Topics include methods and applications of integration, sequences and series, Taylor series, an introduction to differential equations and the use of technology to solve calculus problems. (F,S) (GR)

MATH 183 Multivariable Calculus  5 units
Acceptable for credit: CSU, UC
Prerequisite: MATH 182
Topics include vectors, functions of several variables, differentiation and integration in several dimensions, change of variables, Jacobian, parameterized curves and vector fields, line and surface integrals, Green's, Stokes', and divergence theorems. Computer methods will be used throughout the course. (F,S) (GR)

MATH 184 Linear Algebra/Diff Equations  5 units
Acceptable for credit: CSU, UC
Prerequisite: MATH 182

MATH 189 Independent Projects in Math  1 to 3 units
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

MATH 310 Intro to Graphing Calculators  1 unit
Prerequisite: MATH 311 or MATH 313/314
Advisory: MATH 321
An introduction to the capabilities of a graphing calculator. Emphasis is on the operation of a graphing calculator to perform computations, to graph and analyze functions and to use the calculator as a tool in solving problems chosen from a variety of disciplines. (F,S,U) (GR/P/NP)

MATH 311 Algebra 1  4 units
Prerequisite: MATH 531
A study of the fundamental ideas and methods used to simplify expressions and solve equations and inequalities, including applications. Topics covered include the real numbers, linear equations and inequalities, graphing, polynomials, factoring, rational expressions and equations, and applications. This course is not open to students who have completed or are enrolled in MATH 311 (Algebra 1). (F,S) (GR/P/NP)

MATH 313 Algebra 1: Part 1  3 units
Prerequisite: MATH 531
The first of a two-semester combination that is equivalent to MATH 311 (Algebra 1). This course is designed for students who desire a slower pace and more practice. Topics include the real numbers, linear equations, inequalities, applications and learning skills. This course is not open to students who have completed or are enrolled in MATH 311. (F) (GR/P/NP)

MATH 314 Algebra 1: Part 2  3 units
Prerequisite: MATH 313
The second of a two-semester combination that is equivalent to MATH 311 (Algebra 1). This course is designed for students who desire a slower pace and more practice. Topics include graphing, polynomials, factoring, quadratic equations, applications and learning skills. This course is not open to students who have completed or are enrolled in MATH 311 (S) (GR/P/NP)

MATH 321 First Year Geometry  3 units
Prerequisite: MATH 311 or MATH 313/314
A study of basic geometry principles including constructions, congruence, parallels, right triangles, similarity, circles and proofs. (F,S,U) (GR/P/NP)

MATH 331 Algebra 2  4 units
Prerequisite: MATH 311 or MATH 313/314.
Advisory: MATH 321
A continuation of the study of the methods used to simplify expressions and solve equations and inequalities, including applications. Topics covered include exponents and radicals, rational and radical expressions, complex numbers, nonlinear equations and inequalities, functions and their graphs, systems of equations, exponential expressions, and logarithms. (F,S,U) (GR/P/NP)

MATH 332 Algebra 2: Part 1  3 units
Prerequisite: MATH 311 or MATH 313/314.
Advisory: MATH 321
The first of a two-semester combination that is equivalent to MATH 331, this course is designed for students who desire a slower pace, more practice and learning skills. Topics include a review of real numbers, linear equations and inequalities, applications, graphs of linear equations, exponents, polynomials and factoring. Other topics include functions, rational expressions and equations and systems of equations. This course is not open to students who have completed or are enrolled in MATH 331. (F) (GR/P/NP)

MATH 333 Algebra 2: Part 2  3 units
Prerequisite: MATH 331
The second half of a two-semester combination that is equivalent to MATH 331, this course is designed for students who desire a slower pace, review, more practice and learning skills. Topics include radical expressions and equations, complex numbers, quadratic equations and inequalities, and inverse, exponential and logarithmic functions. This course is not open to students who have completed or are enrolled in MATH 331. (S) (GR/P/NP)

MATH 353 Mathematics Lab  1 unit
Course may be repeated three times.
Corequisite: Concurrent enrollment in any Allan Hancock College math class.
Designed as a supplementary class for students requiring remediation or additional assistance to complete any other math course in the catalog. Course content is determined by the needs of the individual student. May be repeated up to three times for credit. (F,S,U) (P/NP)

MATH 511 Fundamentals of Arithmetic  4 units
A study of arithmetic fundamentals and their application to practical situations. Self-paced class meetings consist of individual help on topics and specific problems encountered...
MATH 511 Fundamentals of Arithmetic: Part 1  2 units
The first of a two-semester combination that is equivalent to MATH 511, this course is designed for students who desire a slower pace as well as more practice and guidance in study skills. Topics include whole numbers, fractions, ratios and decimals. Various modes of instruction will be used, including: lecture, self-paced, cooperative learning and computer assisted instruction. This course is not open to students who have completed or are enrolled in MATH 511. (F,S,U) (GR/P/NP)

MATH 514 Fundamentals of Arithmetic: Part 2  2 units
Prerequisite: MATH 513
The second half of a two-semester combination in the Fundamentals of Arithmetic for students who desire a slower pace, more practice and guidance in study skills. Topics include percents and applications, variable expressions, operations with denominate numbers and solving equations. Various modes of instruction will be used including: lecture, self-paced, cooperative learning and computer assisted instruction. The MATH 513-514 sequence is equivalent to MATH 511. This course is not open to students who have completed or are enrolled in MATH 511. (F,S,U) (GR/P/NP)

MATH 531 Pre-Algebra  3 units
Prerequisite: MATH 511 or MATH 513/514
Prepares students for the algebra sequence and updates mathematical skills for personal, career or academic advancement. Topics include: an introduction to using a scientific calculator; estimation; operations with whole numbers, fractions, decimals, percents, and integers; ratios and proportions; unit conversion; numerical and algebraic expressions; exponent rules; translating from words to expressions and equations; and solving linear equations. (F,S,U) (GR/P/NP)

MEDICAL ASSISTING
Medical Assisting consists of a medical assisting program and a medical billing program. Eligibility for application is dependent on completion of program prerequisites. Program prerequisites must be completed with a "C" or better. Courses include ENGL 300, MATH 531 and CBIS 101.

MEDICAL ASSISTING PROGRAM (MA 305 through MA 356)
The medical assisting program is a two-semester program offered every year. Students in the medical assisting program are required to be at least 18 years of age (required by CaliforniaCodes-Business Professions Code Section 2068-2071) and will be required by the clinical agencies to have a CPR Card, drug screening, background check and physical exam. A positive drug screen or convictions appearing on the background check may make the student ineligible for clinical placement and therefore ineligible to continue in the program. In addition to program prerequisites, an additional prerequisite of BUS 107 must be completed with a “C” or better prior to the beginning of the 2nd semester.

MEDICAL BILLING PROGRAM (MA 360 through MA 361)
The medical billing program courses are offered throughout the fall and spring semesters. Admittance to the Medical Billing program consist of fulfilling program prerequisites and completion of the admission packet.

MA 305 Body Systems And Disease  5 units
A study of medical terminology, anatomy, physiology, pathophysiology, diagnostic testing and treatment modalities. (F) (GR)

MA 350 MA Fundamentals  2 units
Prerequisite: CBIS 101, ENGL 300 or ENGL 514 and MATH 531
Corequisite: BUS 107 or completion and MA 305 and MA 351
Limitation on enrollment: Entrance Requirements: Students must be 18 years old (required by California Codes – Business and Professional Code Section 2069-2071). Complete background check and drug screening (required by clinical agencies utilized for externship). Acceptance into program.

MA 351 MA Clinical Procedures 1  3 units
Limitation on enrollment: Entrance Requirements: Student must be 18 years old (required by California Codes – Business and Professions Code Section 2069-2071). Complete background check and drug screening (required by clinical agencies utilized for externship). Current Healthcare Provider CPR card (required by clinical agencies utilized for externship). Acceptance into the program.

MA 305 MA Fundamentals  2 units
Prerequisite: CBIS 101, ENGL 300 or ENGL 514 and MATH 531
Corequisite: BUS 107 or completion and MA 305 and MA 351
Limitation on enrollment: Entrance Requirements: Students must be 18 years old (required by California Codes – Business and Professions Code Section 2069-2071). Complete background check and drug screening (required by clinical agencies utilized for externship). Acceptance into the program.

MA 352 MA Administrative 1  4 units
Prerequisite: CBIS 101 and ENGL 300 or ENGL 514 and MATH 531
Corequisite: MA 305
Explores administrative office tasks including secretarial and accounting procedures, written and oral communications, appointment scheduling and records management. Topics include insurance, banking, professional fees, billing and collection of fees. Administrative legal and ethical issues are addressed. Computer applications are employed for most functions. (F) (GR)

MA 353 MA Clinical Procedures 2  5 units
Prerequisite: MA 350.
Corequisite: MA 354 and MA 355 and MA 356
Limitation on enrollment: Entrance Requirements: Student must be 18 years old (required by California Codes – Business and Professions Code Section 2069-2071). Complete a background check and drug screening (required by clinical agencies utilized for externship). Current Healthcare Provider CPR card (required by clinical agencies utilized for externship). Acceptance into the program.

Designed to provide the student with opportunity to develop skills required to perform medical office laboratory procedures and assist with medical office surgical procedures. (S) (GR)
MA 354 MA Administrative 2  3 units
Limitation on enrollment: Entrance Requirements: Student must be age 18 (required by California Codes – Business and Professions Code Section 2069-2071). Complete background check and drug screening (required by clinical agencies utilized for externship). Current Healthcare Provider CPR card (required by clinical agencies utilized for externship). Acceptance into the program.
Office management functions including human resource management, leases, legal liability, office safety standards and ordering of supplies and equipment. (S) (GR)

MA 355 MA Pharmacology  4 units
Limitation on enrollment: Entrance Requirements: Student must be age 18 (required by California Codes – Business and Professions Code Section 2069-2071). Complete a background check and drug screening (required by clinical agencies utilized for externship). Current Healthcare Provider CPR card (required by clinical agencies utilized for externship). Acceptance into the program.
Designed to provide instruction in the scope of practice of the medical assistant in medication administration. Included are drug classifications, drug measurement systems and calculation of dosages. Parenteral and non-parenteral drug administration techniques are practiced. (S) (GR)

MA 356 Job Success Externship  2 units
Limitation on enrollment: Entrance Requirements: Student must be age 18 (required by California Codes – Business and Professions Code Section 2069-2071). Complete a background check and drug screening (required by clinical agencies utilized for externship). Current Healthcare Provider CPR card (required by clinical agencies utilized for externship). Acceptance into the program.
Provides an opportunity for students to be exposed to the actual work environment and practice job skills learned in the program. Students interface regularly with faculty during the experience. (S) (P/NP)

MA 360 Medical Billing & Insurance  4 units
Prerequisite: completion or concurrent enrollment in MA 305
Corequisite: MA 361
Practices and principles of health insurance using medical terminology for completion of medical forms. An introduction to various types of medical billing practices including the pegboard system, computerized billing, basic insurance forms, collections and basic legal aspects of billing. (F) (GR)

MA 361 Coding for Medical Insurance  3 units
Corequisite: MA 360

MMAC 101 Intro to Multimedia  2 units
Acceptable for credit: CSU
Corequisite: MMAC 102
An introduction to interactive multimedia as a means of diverse creative expression and communication. Includes basic multimedia processes such as project development, interface design and digital media creation. Students will create multimedia projects in the corequisite lab. (F,S) (GR/P/NP)

MMAC 102 Intro to Multimedia Lab  1 unit
Course may be repeated one time.
Acceptable for credit: CSU
Corequisite: MMAC 101
A hands-on introduction to the skills, tools and processes necessary for creating interactive multimedia products on the computer, including instruction in how to acquire and modify sound, image, graphic, animation and video files. Students will learn to use authoring software, including an introduction to programming language, and work independently or in groups to author interactive multimedia products. (F,S) (GR/P/NP)

MMAC 112 Web Page Design  3 units
Acceptable for credit: CSU
Advisory: ART 108 or GRPH 108
An introduction to the skills, tools and processes necessary for producing interactive Internet Web pages. Students will work as members of a development team, designing a website, developing media and programming the Web pages. (F) (GR/P/NP)

MMAC 114 Dynamic Internet Design  3 units
Acceptable for credit: CSU, UC
Advisory: GRPH 118 or MMAC 112
Explores new approaches for creating dynamic Web and multimedia content with enhanced motion and interactivity. Includes integration of graphics, video, text and sound on desktop computers as well as programming language. (S) (GR/P/NP)

MMAC 115 Intro to Animation  3 units
Acceptable for credit: CSU
An introduction to animation production, including classical character animation and nontraditional techniques. This course is not open to students who are enrolled in or have received credit for ART 115. (F,S) (GR/P/NP)

MMAC 116 Intermediate Animation  3 units
Acceptable for credit: CSU
Prerequisite: ART 115 or MMAC 115
A continuation of ART 115/MMAC 115, emphasizing the development and refinement of animation skills through involvement in class and individual projects. This course is not open to students who are enrolled in or have received credit for FILM 116. (F,S) (GR/P/NP)

MMAC 117 3D Computer Animation 1  3 units
Acceptable for credit: CSU
Advisory: GRPH 111 and GRPH 112 or Auto CAD class or experience with graphics or architectural software applications is strongly recommended.
An introduction to 3D modeling and animation, using professional software to create characters, environments and animations on the computer. This course is not open to students who are enrolled in or have received credit for MMAC 117. (F,S) (GR/P/NP)
MMAC 118 3D Computer Animation 2 3 units
Course may be repeated one time.
Acceptable for credit: CSU
Prerequisite: FILM 117 or MMAC 117
An intermediate experience in 3D-computer animation. This course is not open to students who are enrolled in or have received credit for FILM 118. (F,S) (GR/P/NP)

MMAC 125 Computer Video Editing 3 units
Course may be repeated one time.
Acceptable for credit: CSU
Provides an opportunity to explore particular aspects of the discipline, which are not covered in detail in the existing program. See the current schedule of classes for topics being offered. Offerings identified as 199 are not offered on a regular cycle (not within a two-year period). (A) (GR/P/NP)

MMAC 126 Motion Graphics 3 units
Acceptable for credit: CSU
Advisory: FILM 125 or GRPH 111 and GRPH 112
Explores new digital approaches for creating and composting powerful visual imagery for use in film/video, multimedia and design. Includes integration of graphics, video, text and sound on desktop computers. This course is not open to students who are enrolled in or have received credit for FILM 126. (F) (GR/P/NP)

MMAC 127 DVD Design & Production 3 units
Acceptable for credit: CSU
Advisory: Film 125 or MMAC 125
Presents non-linear video editing including combining clips and digital source materials, editing digital movies and preparing digital movies for the Web. This course is not open to students who are enrolled in or have received credit for FILM 127. (F,S) (GR/P/NP)

MMAC 128 Intermediate Motion Graphics 3 units
Acceptable for credit: CSU
Advisory: FILM 126 or MMAC 126
Intermediate study in motion graphics utilizing current industry standard software. Emphasizes the expansion and refinement of digital visual effects skills through involvement in class and individual projects. (F) (GR/P/NP)

MMAC 189 Independent Projects in Multimedia Arts & Communication 1 to 3 units
Course may be repeated three times.
Acceptable for credit: CSU; UC-DAT
For course description, see "Independent Projects."

MMAC 199 Topics in Multimedia Arts & Communication 0.5 to 3 units
Acceptable for credit: CSU
Lecture and/or lab as required by unit formula. Eligibility for enrollment will be determined by content of course.
Provides an opportunity to explore particular aspects of the discipline, which are not covered in detail in the existing program. See the current schedule of classes for topics being offered. Offerings identified as 199 are not offered on a regular cycle (not within a two-year period). (A) (GR/P/NP)

MMAC 380 Web-Based Multimedia Lab 1 unit
Course may be repeated one time.
Corequisite: MMAC 112 or MMAC 114
An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (F,S) (P/NP)

MMAC 381 Disk-Based Multimedia Lab 1 unit
Course may be repeated two times.
Corequisite: GRPH 114 or MMAC 101 or MMAC 114
An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (F,S) (P/NP)

MMAC 382 Video-Based Multimedia Lab 1 unit
Course may be repeated three times.
Corequisite: MMAC 125 or MMAC 126 or MMAC 127
An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (F,S) (P/NP)

MUS 100 Music Appreciation 3 units
Acceptable for credit: CSU, UC
An overview of the music of Western (European) civilization including analysis of its common forms, examination of its basic elements, survey of its development and discussion of its relationship to the other arts and to general cultural history. Designed for the general student; music majors should enroll in MUS 101 and MUS 102. (F,S,U) (GR/P/NP)

MUS 101 Music History: Ancient-Baroque 3 units
Acceptable for credit: CSU, UC
A study of the development of the music of Western civilizations from the ancient Greeks and early Christian periods through music of the eighteenth-century Baroque period. Recommended course for the music major. (S1) (GR/P/NP)

MUS 102 Music History: Classical-Modern 3 units
Acceptable for credit: CSU, UC
A study of the development of music from the Classic and Romantic periods through the contemporary period. Recommended course for the music major. (S2) (GR/P/NP)

MUS 104 Roots of Pop, Rock & Jazz 3 units
Acceptable for credit: CSU, UC
A general survey course tracing the roots and special idiosyncrasies of the American popular music tradition from medieval Europe and Africa to the commercial and non-commercial world of today. (F) (GR/P/NP)

MUS 105 The American Musical-Stage 3 units
Acceptable for credit: CSU, UC
The development of the American musical as a theatrical art form through critical appraisal of major composers, lyricists and playwrights from the early 20th century until the present. (F,S) (GR/P/NP)

MUS 106 World Music Appreciation 3 units
Acceptable for credit: CSU, UC
A study of the music of many cultures around the world. Includes an overview of the cultures and social situations that gave rise to these varied musical forms of expression. (F,S,U) (GR/P/NP)
<table>
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<tr>
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<td>MUS 122</td>
<td>Piano Repertoire</td>
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</table>

**MUS 110 Music Fundamentals**

- **Acceptable for credit:** CSU, UC
- A basic and elementary approach to reading music, writing musical notation and singing simple songs. Designed for the non-music major and the Elementary Teaching Credential candidate. (F, S, U) (GR/P/NP)

**MUS 111 Music Theory 1**

- **Acceptable for credit:** CSU, UC
- Advisory: Students who cannot read music are advised to take MUS 110.

**MUS 112 Music Theory 2**

- **Acceptable for credit:** CSU, UC
- Prerequisite: MUS 111
- A continuation of Comprehensive Music Theory 1. An integrated course dealing with sight singing, ear training, one- and two-part melodic dictation, intermediate level materials of musicianship, rhythmic notation, four-part voice leading technique, secondary dominants, common chord modulation, sequences, advanced Roman numeral and figured bass analysis techniques. (S) (GR/P/NP)

**MUS 113 Music Theory 3**

- **Acceptable for credit:** CSU, UC
- Prerequisite: MUS 112
- A continuation of Comprehensive Music Theory 2, dealing with sight singing, ear training, one- and two-part melodic dictation, advanced materials of musicianship and rhythmic notation, advanced modulation techniques, tertian extensions of the triad including 9th, 11th and 13th chords, augmented sixth chords, Neapolitan sixth chords, advanced four-part harmonic writing and analysis as well as Sonata form. (F) (GR/P/NP)

**MUS 114 Music Theory 4**

- **Acceptable for credit:** CSU, UC
- Prerequisite: MUS 113
- A continuation of Comprehensive Music Theory 3 dealing with sight singing, ear training, melodic dictation, complex rhythmic notation, materials of musicianship, Post-Romantic harmony, quartal and quintal harmony, Impressionist harmonic procedures, Jazz, Atonality, the 12-tone method, integral serialism, aleatorism, Post-Serialism and minimalism. (S) (GR/P/NP)

**MUS 115 Intro to Sound Recording & Mixing**

- **Acceptable for credit:** CSU
- An introduction to the equipment, terminology and procedures of sound engineering. Combines lectures and demonstrations with hands-on use of equipment. Students will have the opportunity to use professional sound recording and processing equipment in various recording and mix-down situations. This course is not open to students who are enrolled in or have received credit for FILM 120. (F, S) (GR/P/NP)

**MUS 116 Sound Production Techniques**

- **Acceptable for credit:** CSU
- Prerequisite: MUS 115 or FILM 120
- Explores the use of digital audio software for recording music and producing audio for video projects, as well as the use of digital signal processors for mixing and mastering recordings. This course is not open to students who are enrolled in or have received credit for FILM 121. (S) (GR/P/NP)

**MUS 117 MIDI Technology & Applications**

- **Acceptable for credit:** CSU
- An introduction to the use of Musical Instrument Digital Interface (MIDI). Includes working with synthesizers, sequencing and music notation in a MIDI-controlled environment. This course is intended for music majors and non-majors. (F, S) (GR/P/NP)

**MUS 118 Intro to Electronic Music**

- **Acceptable for credit:** CSU
- An introduction to the various areas of electronic music, including the history of electronic music, sound synthesis techniques and the use of digital and analog synthesizers in a recording studio. Designed for both music majors and non-majors. (F, S) (GR/P/NP)

**MUS 119 Electronic Music Technique**

- **Acceptable for credit:** CSU
- Course may be repeated three times. (F, S) (GR/P/NP)

**MUS 120 Beginning Piano**

- **Acceptable for credit:** CSU, UC
- An introductory course covering music reading, basic piano techniques, scales, arpeggios, simple chording, sight reading and music theory as applied to the piano. Recommended for prospective elementary classroom teachers and music majors who have had little or no piano training. (F, S) (GR/P/NP)

**MUS 121 Intermediate Piano**

- **Acceptable for credit:** CSU, UC
- Course may be repeated one time. (F, S) (GR/P/NP)

**MUS 122 Piano Repertoire**

- **Acceptable for credit:** CSU, UC
- A study of standard piano repertoire from style periods ranging from the Baroque period to modern works. Students will continue the study of scales, arpeggios, and correct performance practices. (F, S, U) (GR/P/NP)
MUS 123 Class Vocal Techniques 2 units
Course may be repeated one time. Acceptable for credit: CSU, UC
An introduction to the fundamental techniques of vocal performance. Topics include warm-up techniques, proper breathing, phrasing, vocal production diction, as well as an introduction to standard vocal repertoire and associated performance practices. (F,S) (GR/P/NP)

MUS 124 Intermediate Vocal Techniques 2 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Prerequisite: MUS 123
A continuation of the development of vocal performance techniques introduced in MUS 123. Topics include exercises for the extension of the vocal range and improvement of diction and tone as well as the study and performance of more difficult works from the vocal repertoire. (F,S) (GR/P/NP)

MUS 125 Beginning Guitar 1 unit
Course may be repeated one time.
Acceptable for credit: CSU, UC
An introduction to the techniques of guitar performance including reading music and performing scales, chord patterns and beginning level pieces. The course is intended for music majors and non-majors. Students must provide his/her own acoustic guitar. (F,S) (GR/P/NP)

MUS 126 Intermediate Guitar 1 unit
Course may be repeated one time.
Acceptable for credit: CSU, UC
A continuation of MUS 125 covering technical problems, scales, chording, sight reading, fundamentals of technique and the interpretation of guitar literature within the ability of each student. (F,S) (GR/P/NP)

MUS 127 Vocal Repertoire 2 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Audition. Advisory: MUS 124
A study of standard vocal repertoire with an emphasis on solo and small ensemble literature. Students practice correct tone production, diction, stage presence and style interpretation. (F,S) (GR)

MUS 130 Mixed Ensemble 2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Designed to give singers with varying degrees of musical experience the opportunity to rehearse and perform standard choral literature in a broad range of styles, including a capella and instrumentally accompanied works. Public appearances are scheduled throughout the semester with an emphasis on community outreach. (F,S) (GR/P/NP)

MUS 132 Masterworks Chorale 2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Limitation on enrollment: Audition at first meeting
Study and performance. A choral ensemble studying standard choral literature emphasizing late Baroque and Classical music, especially larger works. Performance opportunities are available. Audition at first class meeting. (F,S) (GR/P/NP)

MUS 133 Chamber Voices 2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Advisory: Ability to sing and read music
Provides the opportunity to study and perform standard choral literature of the Baroque and Classical periods. A capella performance is emphasized. Public concert appearances will include repertoire in a wide range of styles, including accompanied works. Audition at first class meeting. (F,S) (GR/P/NP)

MUS 137 Concert Chorale 2 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Limitation on enrollment: Audition
Designed to give singers the opportunity to rehearse and perform standard chorale literature, with emphasis on large choral works. (F,S) (GR)

MUS 140 Symphonic Band 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC
Limitation on enrollment: Audition
The study of band literature, techniques of ensemble playing and concert performance. Numerous public performances. (F,S) (GR/P/NP)

MUS 143 Jazz Band 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC
Limitation on enrollment: Ability to play appropriate instrument and read music.
Designed for members of the Allan Hancock College Jazz Band, which will perform a variety of traditional and contemporary jazz works. The ensemble will make several appearances during the semester. (F,S) (GR/P/NP)

MUS 144 Jazz Improvisation 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC
Prerequisite: Ability to play appropriate instrument and read music.
Focuses on the development of various improvisational techniques in both small ensemble and Big Band Jazz situations. There will be several performances during the course of the semester. (F,S) (GR/P/NP)

MUS 145 Big Band Jazz 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC
Prerequisite: Ability to play appropriate instrument and read music.
A performance ensemble that specializes in the Big Band and Swing Music of the 1930s and 1940s. The ensemble will have several performances each semester. (F,S) (GR/P/NP)

MUS 146 Jazz Ensemble 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC
Prerequisite: Ability to play appropriate instrument and read music.
A performance ensemble that specializes in the music of Jazz composers and arrangers for the second half of the 20th century. The ensemble will have several performances each semester. (F,S) (GR/P/NP)
The registered nursing program, fully accredited by the California Board of Registered Nursing, is a two-semester program offered every year starting spring semester. Eligibility for application is dependent on completion of program prerequisites and having a current California Vocational Nursing license or recent completion of an accredited vocational nursing program. Entrance criteria also include consideration of GPA and an acceptable score on a readiness exam. Prerequisite courses must be completed with a "C" or better. Courses include BIOL 124, BIOL 125, BIOL 128, PSY 101, MATH 311 and ENGL 101.

NURSING

The nursing programs at Allan Hancock College provide students interested in nursing the opportunity to progress through the various levels of nursing education in a career ladder, from Nursing Assistant to Licensed Vocational Nurse to Registered Nurse. Students in all nursing programs are required by the clinical agencies to have drug screening and background checks. A positive drug screen or convictions appearing on the background check may make the student ineligible for clinical placement, and therefore ineligible to continue in the program.

REGISTERED NURSING PROGRAM (NURS 101-112)

The registered nursing program, fully accredited by the California Board of Registered Nursing, is a two-semester program offered every year starting spring semester. Eligibility for application is dependent on completion of program prerequisites and having a current California Vocational Nursing license or recent completion of an accredited vocational nursing program. Entrance criteria also include consideration of GPA and an acceptable score on a readiness exam. Prerequisite courses must be completed with a "C" or better. Courses include BIOL 124, BIOL 125, BIOL 128, PSY 101, MATH 311 and ENGL 101.

NURS 101 Foundations for Caring 2 units
Acceptable for credit: CSU
Limitation on enrollment: Admittance to the RN Program
The course introduces professional nurse caring. It includes foundations in communication, teaching and learning, nursing process, clinical judgment and life span and how these concepts, skills, and issues affect and are affected by a diverse population needing health services. It covers principles of self-care that focus on multicultural differences, attitudes and beliefs. It surveys legal, ethical, historical and socio-cultural aspects of nursing. It emphasizes critical thinking, non-judgmental advocacy and nursing caring.
(S2) (GR)

NURS 102 Caring in the Community 3 units
Acceptable for credit: CSU
Applies nurse caring concepts to administering care of families. Topics include human sexuality, child/family abuse, cultural diversities and ethnic considerations and gerontology, emphasizing nursing intervention in community based health care settings. (S2) (GR)

NURS 103 Caring Practicum 1 5 units
Acceptable for credit: CSU
Provides moderately structured learning experiences in a variety of community health care settings. Emphasizes hands-on application of nursing care concepts in family health care and includes observational visits to community health care providers. (S2) (GR)

NURS 104 Medical Surgical Nursing 3 units
Acceptable for credit: CSU
Provides a data base for students to utilize in nursing decision-making. Content is arranged in learning modules relative to problems seen during the life span. Concepts of human sexuality, pathophysiology and the nursing process are applied. The caring process is applied to a variety of common health problems related to prevention, maintenance and restoration. (S2) (GR)

NURS 106 Leadership & Management 2 units
Acceptable for credit: CSU
Limitation on Enrollment: Admittance to the RN Program
The course introduces the application of leadership and management concepts, skills and issues to the future registered nurse. It covers critical thinking, change, quality management, ethical and legal responsibilities and professional nursing roles and relationships. It also details application for nursing licensure and of state nurse practice acts. (F2) (GR)
NURS 108 Caring Practicum 2  5 units
Acceptable for credit:  CSU
Prerequisite: Successful completion of first semester nursing courses
Corequisite: Enrollment in second semester nursing courses
Application of the nurse caring process for people at risk with the student implementing the process in clinical health care settings with less instructor supervision. A short preceptorship experience is included.  (F2)  (GR)

NURS 109 Medical/Surgical at Risk Population  2.5 units
Acceptable for credit:  CSU
Prerequisite: Successful completion of first semester nursing courses
Corequisite: Enrollment in second semester nursing courses
A study of the application of caring concepts to medical/surgical clients at risk. Emphasizes the skills necessary to provide specific nursing interventions.  (F2)  (GR)

NURS 110 Psychiatric Nursing  2.5 units
Acceptable for credit:  CSU
Prerequisite: Successful completion of first semester nursing courses
Corequisite: Enrollment in second semester nursing courses
Provides the skills necessary to identify psychiatric and mental health patients/clients at risk and to apply nursing caring concepts. Specific nursing interventions are presented.  (F2)  (GR)

NURS 111 Intermediate RN Skills  0.5 unit
Acceptable for credit:  CSU
Limitation on enrollment: Admittance to the RN Program
The course provides hands-on practice and testing at the registered nursing level. The nursing skills vary from intermediate to complex. Practice opportunities vary from highly structured simulations to unstructured clinical scenarios.  (S2)  (GR)

NURS 112 Advanced RN Skills  0.5 unit
Acceptable for credit:  CSU
Limitation on enrollment: Admittance to the RN Program
The course provides opportunities to practice and develop advanced nursing skills. The complex skills integrate previously learned nursing skills and apply protocols in case scenarios, simulations and role playing clinical situations.  (S2)  (GR)

NURS 180 RN Skills Lab  0.5 unit
Course may be repeated two times.
Acceptable for credit:  CSU
Corequisite: Enrollment in the registered nursing program.
Open-entry laboratory course designed to provide students with the opportunity to refine and expand skills learned in the corequisite program. Students may repeat the course as they progress through the program.  (F,S)  (P/NP)

NURS 199 Special Topics in Nursing  0.5 to 3 units
Acceptable for credit:  CSU, UC-Determined after admission
Lecture and/or lab as required by unit formula. Eligibility for enrollment will be determined by content of course.
Provides an opportunity to explore particular aspects of the discipline, which are not covered in detail in the existing program. See the current schedule of classes for topics being offered. Offerings identified by 199 are not offered on a regular cycle (not within a two-year period).  (GR)  (A)

VOCATIONAL NURSING PROGRAM (NURSE 310 - 338)
The one-year program, which qualifies the certified nursing assistant for the state board examination in vocational nursing. The student must obtain the official application forms and follow outlined procedures for enrollment. Application materials fully outline state requirements for licensure. Students are required to maintain a "C" average or better in each course to progress in the program. Information may be secured about the program in the Health Sciences office in building M or from counseling services.
Program prerequisites: Student must be a licensed CNA and have successfully completed BIOL 124 and BIOL 125, ENGL 101, MATH 311 and NURS 310.

NURS 300 CNA/Acute Care Aid  16 units
Prerequisite: Completion of program application and ENGL 101
Limitation on enrollment: Admittance to the CNA program.
The course details the roles and responsibilities of the certified nursing assistant in both long-term and acute care settings. It emphasizes the importance of professionalism, responsibility and accountability. It introduces various health care professional careers.  (F/S)  (GR)

NURS 310 Pharmacology  3 units
A study of all phases of clinical pharmacology, including administration of medications, types of drugs, general drug actions and uses, adverse effects, clinical consideration and patient teaching. Includes practice in computing drug dosages, making conversions from one system to another while utilizing basic mathematical concepts.  (S)  (GR)

NURS 311 Medication Administration  1.5 units
Presents the knowledge and skills necessary for safe medication administration.  (S)  (GR)

NURS 317 Fundamentals of Nursing  3.5 units
Provides a foundation of theory and training necessary for the beginning student to perform basic nursing techniques and procedures safely and effectively.  (S)  (GR)

NURS 318 Clinical Lab 1  8 units
Supervised experience in selected practice areas using basic vocational nursing skills in the acute hospital and skilled nursing facility.  (S1)  (P/NP)

NURS 320 Gerontology  2 units
Provides the theory background necessary for the student to perform safe, effective vocational nursing care for aging adults with a strong emphasis on self care and health maintenance activities of the elderly.  (S1)  (GR)

NURS 322 Maternal & Infant Health  2 units
A study of all phases of the maternity cycle, including the nursing care of the obstetrical patient and the newborn infant.  (F1)  (GR)

NURS 323 Respiratory System  2 units
Provides the theory necessary to prepare the Vocational Nursing student to perform safe, effective nursing care for patients with disorders of the upper and lower respiratory tract.  (U)  (GR)
NURSING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>NURS 327</td>
<td>Gastrointestinal and Urinary</td>
<td>2.5</td>
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<tr>
<td></td>
<td>Provides the theory and training necessary for</td>
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</tr>
<tr>
<td></td>
<td>the student to perform safe and effective</td>
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<tr>
<td></td>
<td>nursing management for patients with disorders</td>
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<tr>
<td></td>
<td>of the gastrointestinal and urinary systems.</td>
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<tr>
<td></td>
<td>(F1) (GR)</td>
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<tr>
<td>NURS 328</td>
<td>Clinical Lab 2</td>
<td>3</td>
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<tr>
<td></td>
<td>Supervised experience in the acute hospital and</td>
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<td></td>
<td>out-patient care clinics in selected practice</td>
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<tr>
<td></td>
<td>areas using intermediate Vocational Nursing</td>
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<tr>
<td></td>
<td>student skills. (U) (P/NP)</td>
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<tr>
<td>NURS 329</td>
<td>Endocrine &amp; Reproductive</td>
<td>2.5</td>
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<tr>
<td></td>
<td>Provides the foundations of safe and effective</td>
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<tr>
<td></td>
<td>vocational nursing care of various disease</td>
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<td></td>
<td>processes of the endocrine and reproductive</td>
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<td></td>
<td>systems. (S1) (GR)</td>
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<tr>
<td>NURS 330</td>
<td>Pediatrics</td>
<td>1.5</td>
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<tr>
<td></td>
<td>Provides the theory and training necessary for</td>
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<tr>
<td></td>
<td>the student to perform safe, effective vocational</td>
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<tr>
<td></td>
<td>nursing care for children, ranging in life stage</td>
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<tr>
<td></td>
<td>from neonate to adolescence. (U) (GR)</td>
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<tr>
<td>NURS 331</td>
<td>Circulatory System</td>
<td>2</td>
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<tr>
<td></td>
<td>Provides the theory and training necessary for</td>
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<tr>
<td></td>
<td>the student to perform safe and effective</td>
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<tr>
<td></td>
<td>vocational nursing care for patients with</td>
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<tr>
<td></td>
<td>disorders of the circulatory system. (F1) (GR)</td>
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<tr>
<td>NURS 332</td>
<td>Neurosensory System</td>
<td>2</td>
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<tr>
<td></td>
<td>Provides the theory and training necessary for</td>
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<tr>
<td></td>
<td>the student to perform safe, effective vocational</td>
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<tr>
<td></td>
<td>nursing care for patients with disorders of the</td>
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<tr>
<td></td>
<td>brain, spinal cord and the special senses of the</td>
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<td></td>
<td>eye and ear. (F1) (GR)</td>
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<tr>
<td>NURS 335</td>
<td>Integumentary/Musculoskeletal</td>
<td>2.5</td>
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<tr>
<td></td>
<td>An introductory course on the safe and effective</td>
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<tr>
<td></td>
<td>vocational nursing care of patients/clients with</td>
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<tr>
<td></td>
<td>health conditions affecting the integumentary</td>
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<tr>
<td></td>
<td>and musculoskeletal systems. (S1) (GR)</td>
<td></td>
</tr>
<tr>
<td>NURS 337</td>
<td>Professional Relationships</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Prepares the graduating Vocational Nursing student for the working world of nursing, emphasizing legal aspects of nursing, licensure, Nurse Practice Act, participation in professional organizations and job seeking techniques. (F1) (GR)</td>
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</tr>
<tr>
<td>NURS 338</td>
<td>Clinical Lab 3</td>
<td>8</td>
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<tr>
<td></td>
<td>Supervised experience in the acute hospital in</td>
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<tr>
<td></td>
<td>selected practice areas using vocational nursing</td>
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<td></td>
<td>skills. (F1) (P/NP)</td>
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<tr>
<td>NURS 370</td>
<td>Intravenous Therapy</td>
<td>2</td>
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<tr>
<td></td>
<td>Prerequisite: Current California Vocational Nurse's or Registered Nurse's License or concurrent enrollment in third semester of Vocational Nursing program. Prepares the licensed professional nurse for starting and superimposing intravenous fluids, blood and blood products. Licensed vocational nurses that successfully complete the course will be issued a State Board of Vocational Nurse and Psychiatric Technician Examiners certificate of completion. (F1) (GR)</td>
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<tr>
<td>NURS 380</td>
<td>LVN Skills Lab</td>
<td>0.5</td>
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<tr>
<td></td>
<td>Course may be repeated two times. Corequisite:</td>
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<tr>
<td></td>
<td>Enrollment in the licensed vocational nursing</td>
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<td></td>
<td>program. Open-entry laboratory course designed to provide students with the opportunity to refine and expand skills learned in the corequisite program. Students may repeat the course as they progress through the program. (F,S) (P/NP)</td>
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<tr>
<td>NURS 399</td>
<td>Special Topics in Nursing</td>
<td>0.5</td>
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<tr>
<td></td>
<td>Lecture and/or lab as required by unit formula.</td>
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<td></td>
<td>Provides an opportunity to explore particular</td>
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<td></td>
<td>aspects of the discipline that are not covered</td>
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<td></td>
<td>in detail in the existing program. See the current schedule of classes for topics being offered. Offerings identified by 399 are not offered on a regular cycle (not within a two-year period). (A) (GR)</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
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<tr>
<td>PLGL 101</td>
<td>Intro to Paralegal Studies</td>
<td>3</td>
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<td></td>
<td>Acceptable for credit: CSU</td>
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<tr>
<td></td>
<td>Advisory: Eligibility for ENGL 514</td>
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<tr>
<td></td>
<td>Acquire the basic knowledge needed to begin your career as</td>
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<tr>
<td></td>
<td>a paralegal. This course provides an in-depth overview of</td>
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<td></td>
<td>the legal system with special emphasis on the duties and</td>
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<td>responsibilities of a paralegal.</td>
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<tr>
<td></td>
<td>(F, S) (GR)</td>
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<tr>
<td>PLGL 102</td>
<td>Criminal Law and Procedure</td>
<td>3</td>
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<td></td>
<td>Acceptable for credit: CSU</td>
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<tr>
<td></td>
<td>Advisory: ENGL 514</td>
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<tr>
<td></td>
<td>Introduction to criminal law and procedure for the</td>
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<tr>
<td></td>
<td>paralegal. This course includes crimes against persons,</td>
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<tr>
<td></td>
<td>habitation, property, order, justice, and morals. Defenses</td>
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<td></td>
<td>to criminal activity, search and seizure, confessions,</td>
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<tr>
<td></td>
<td>pretrial, trial and sentencing are also covered. (F, S)</td>
<td></td>
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<td></td>
<td>(GR)</td>
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<tr>
<td>PLGL 103</td>
<td>Civil Litigation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Acceptable for credit: CSU</td>
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<tr>
<td></td>
<td>Prerequisite: ENGL 100</td>
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<tr>
<td></td>
<td>Introduction to civil litigation for the paralegal. This</td>
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<tr>
<td></td>
<td>course is a survey of litigation, from the initial client</td>
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<td>interview to post-trial appeals. Complaint drafting, filing</td>
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<td>service motions, answers and discovery are covered.</td>
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<td>Settlement and trial are also included. (F, S) (GR)</td>
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<tr>
<td>PLGL 104</td>
<td>Legal Research and Writing</td>
<td>3</td>
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<td></td>
<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Prerequisite: ENGL 100</td>
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<tr>
<td></td>
<td>This course covers the sources and methods of legal</td>
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<tr>
<td></td>
<td>research as related to cases, statutes and secondary</td>
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<td></td>
<td>materials. Students will engage in objective legal writing</td>
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<td></td>
<td>based upon their research. (F, S) (GR)</td>
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<tr>
<td>PLGL 105</td>
<td>Legal Analysis and Writing</td>
<td>3</td>
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<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Prerequisite: PLGL 104</td>
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<td></td>
<td>Designed to expose paralegal students to written advocacy</td>
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<td>and discovery requests. Emphasizes persuasive writing</td>
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<td>techniques, writing for a purpose and discovery mechanics.</td>
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<td>Students will complete substantial writing assignments.</td>
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<td></td>
<td>(F, S) (GR)</td>
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<tr>
<td>PLGL 106</td>
<td>Case Management</td>
<td>3</td>
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<td></td>
<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Prerequisite: PLGL 103</td>
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<td></td>
<td>This course is designed to help students develop the</td>
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<td></td>
<td>conceptual and technical skills necessary to manage cases</td>
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<td>in a law office environment. The course includes</td>
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<td></td>
<td>interaction with case management software, database and word</td>
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<td></td>
<td>processing. (F, S) (GR)</td>
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<tr>
<td>PLGL 107</td>
<td>Ethics for Paralegals</td>
<td>1</td>
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<td></td>
<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Advisory: Eligibility for ENGL 300 or ENGL 514</td>
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<tr>
<td></td>
<td>Ethics are the standards that regulate the integrity of the</td>
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<td>legal profession. This course will improve your</td>
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<td></td>
<td>understanding of how paralegals are affected by ethical</td>
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<tr>
<td></td>
<td>issues. (F, S) (GR)</td>
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</tbody>
</table>

## PERSONAL DEVELOPMENT

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Acceptable for credit</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD 100</td>
<td>Personal &amp; Career Exploration</td>
<td>3</td>
<td>CSU, UC</td>
<td></td>
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<td></td>
<td>Acceptable for credit: CSU, UC</td>
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<td></td>
<td>Provides in-depth career direction with an intensive</td>
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<td>exploration of one's own values, interests, abilities and an</td>
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<td>intensive career information search. Instruction includes</td>
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<td></td>
<td>self-paced materials, lecture, small group discussion,</td>
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<td></td>
<td>interviews and input from various campus departments.</td>
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<td>(GR/P/NP)</td>
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<tr>
<td>PD 101</td>
<td>Success in College</td>
<td>3</td>
<td>CSU</td>
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<td>Acceptable for credit: CSU, UC</td>
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<td>Considers individual development with the goal of increasing</td>
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<td>knowledge of self and others within the college. Topics</td>
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<td></td>
<td>include self-knowledge and assessment, learning to learn and</td>
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<td></td>
<td>making the best use of college resources. This course is</td>
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<td></td>
<td>not open to students who are enrolled in or have received</td>
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<td></td>
<td>credit for LS 101 or PD 105. (GR/P/NP)</td>
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<td>Course Code</td>
<td>Title</td>
<td>Units</td>
<td>Acceptable for credit:</td>
<td>Semester(s)</td>
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<tr>
<td>PD 102</td>
<td>Human Relationships</td>
<td>3 units</td>
<td>CSU</td>
<td>F, S</td>
</tr>
<tr>
<td>PD 110</td>
<td>College Success Seminar</td>
<td>1 unit</td>
<td>CSU</td>
<td>F, S</td>
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<tr>
<td>PD 115</td>
<td>Career Planning</td>
<td>1 unit</td>
<td>CSU</td>
<td>F, S</td>
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<tr>
<td>PD 120</td>
<td>Effective Tutoring</td>
<td>1 unit</td>
<td>CSU</td>
<td>F, S</td>
</tr>
<tr>
<td>PD 179, 379</td>
<td>Experimental Courses in Personal Development</td>
<td>0.5 to 10 units</td>
<td>CSU, UC-DAT</td>
<td>F, S</td>
</tr>
<tr>
<td>PHIL 101</td>
<td>Survey of Philosophy</td>
<td>3 units</td>
<td>CSU, UC</td>
<td>F, S</td>
</tr>
<tr>
<td>PHIL 102</td>
<td>Existence &amp; Reality</td>
<td>3 units</td>
<td>CSU, UC</td>
<td>F</td>
</tr>
<tr>
<td>PHIL 105</td>
<td>Ethics</td>
<td>3 units</td>
<td>CSU, UC</td>
<td>F, S, U</td>
</tr>
<tr>
<td>PHIL 112</td>
<td>Logic</td>
<td>3 units</td>
<td>CSU, UC</td>
<td>F, S, U</td>
</tr>
<tr>
<td>PHIL 114</td>
<td>Critical Thinking</td>
<td>3 units</td>
<td>CSU, UC</td>
<td>F, S, U</td>
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<tr>
<td>PHIL 121</td>
<td>Religions of the Modern World</td>
<td>3 units</td>
<td>CSU, UC</td>
<td>F, S</td>
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<tr>
<td>PHIL 122</td>
<td>Exploring Religious Issues</td>
<td>3 units</td>
<td>CSU, UC</td>
<td>F, S, U</td>
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<tr>
<td>PHIL 179, 379</td>
<td>Experimental Courses in Philosophy</td>
<td>0.5 to 10 units</td>
<td>CSU, UC-DAT</td>
<td>F, S</td>
</tr>
<tr>
<td>PHIL 189</td>
<td>Independent Projects in Philosophy</td>
<td>1 to 3 units</td>
<td>CSU, UC-DAT</td>
<td>F</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Acceptable for Credit</td>
<td>Prerequisite(s)</td>
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<tr>
<td>PHTO 110</td>
<td>Basic Photography</td>
<td>3 units</td>
<td>CSU, UC</td>
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<td></td>
<td>Designed to introduce the student to the fundamentals of black and white photography as a means of personal expression or as a tool for professional growth. Included will be units on cameras, light, exposure, film and print development, enlarging, print finishing and criticism. (F,S) (GR/P/NP)</td>
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<tr>
<td>PHTO 120</td>
<td>Materials &amp; Processes</td>
<td>2 units</td>
<td>CSU</td>
<td>PHTO 110</td>
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<tr>
<td></td>
<td>An exploration of alternative photographic materials and processes including pinhole photography, cyanotype, Van Dyke, gum painting, toning, making digital and traditional enlarged negatives and making photographic books. A course for the student who has a background in photography. (S) (GR/P/NP)</td>
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<tr>
<td>PHTO 121</td>
<td>Materials &amp; Processes Lab</td>
<td>1 unit</td>
<td>CSU</td>
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<td></td>
<td>Course may be repeated three times.</td>
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<tr>
<td>PHTO 130</td>
<td>Advanced Black &amp; White</td>
<td>2 units</td>
<td>CSU</td>
<td>PHTO 110</td>
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<tr>
<td></td>
<td>Investigates theories and working techniques of the Zone System of producing negatives and advanced techniques for controlling the printing process. Emphasizes the utilization of those techniques in pursuit of a personal visual style. Students are required to provide their own cameras. (A) (GR/P/NP)</td>
<td></td>
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<tr>
<td>PHTO 131</td>
<td>Adv Black &amp; White Photo Lab</td>
<td>1 unit</td>
<td>CSU</td>
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<td></td>
<td>Course may be repeated three times.</td>
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<tr>
<td>PHTO 140</td>
<td>Intro to Color Photography</td>
<td>2 units</td>
<td>CSU, UC-DAT</td>
<td>PHTO 110</td>
</tr>
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<td></td>
<td>A basic course designed to introduce the student to the fundamentals of color photography, including the practical application of color theory to problems involving the use of color slides and color prints as a means of personal expression. Includes an examination of contemporary trends in color imagery. (F) (GR/P/NP)</td>
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<tr>
<td>PHTO 141</td>
<td>Intro to Color Photography Lab</td>
<td>1 unit</td>
<td>CSU, UC-DAT</td>
<td>PHTO 110</td>
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<td></td>
<td>Course may be repeated three times.</td>
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<tr>
<td>PHTO 150</td>
<td>Intro to Commercial Photography</td>
<td>2 units</td>
<td>CSU</td>
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<td></td>
<td>Course may be repeated one time.</td>
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<tr>
<td>PHTO 160</td>
<td>Digital Photography</td>
<td>2 units</td>
<td>CSU</td>
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<td></td>
<td>Corequisite: PHTO 171</td>
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<tr>
<td>PHTO 170</td>
<td>Digital Photography</td>
<td>2 units</td>
<td>CSU</td>
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<tr>
<td>PHTO 171</td>
<td>Digital Photography Lab</td>
<td>1 unit</td>
<td>CSU</td>
<td></td>
</tr>
<tr>
<td>PHTO 179, 379</td>
<td>Experimental Courses in Photography</td>
<td>5 to 10 units</td>
<td>CSU, UC-DAT</td>
<td>For course description, see &quot;Experimental Courses.&quot;</td>
</tr>
<tr>
<td>PHTO 180</td>
<td>Independent Projects in Photography</td>
<td>1 to 3 units</td>
<td>CSU, UC-DAT</td>
<td>For course description, see &quot;Independent Projects.&quot;</td>
</tr>
<tr>
<td>PHTO 199</td>
<td>Special Topics in Photography</td>
<td>0.5 to 3 units</td>
<td>CSU, UC-DAT</td>
<td>For course description, see &quot;Special Topics.&quot;</td>
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<tr>
<td>PHTO 199C</td>
<td>Portrait Photography</td>
<td>2 units</td>
<td>CSU</td>
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<tr>
<td></td>
<td>An examination of the styles and techniques of photographic portraiture. (A) (P/NP)</td>
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<tr>
<td>PHTO 380</td>
<td>Black and White Photo Lab</td>
<td>0.5 unit</td>
<td>CSU</td>
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<tr>
<td>PHTO 381</td>
<td>Black and White Photo Lab</td>
<td>0.5 unit</td>
<td>CSU</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>PHTO 381</td>
<td>Black and White Photo Lab 2</td>
<td>1</td>
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<td></td>
<td>Course may be repeated three times.</td>
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<td></td>
<td>Corequisite: PHTO 110 or PHTO 112 or PHTO 120 or</td>
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<td></td>
<td>PHTO 121 or PHTO 130 or PHTO 131 or PHTO 150 or</td>
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<tr>
<td></td>
<td>PHTO 160 or PHTO 179 or PHTO 189 or PHTO 199</td>
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<tr>
<td></td>
<td>(as related to black and white photo process only)</td>
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<td></td>
<td>An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may enroll for any combination of PHTO 380 and PHTO 381 for a total of four semesters. Students may not be concurrently enrolled in PHTO 380 and PHTO 381. <em>(F,S) (P/NP)</em></td>
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<tr>
<td>PHTO 382</td>
<td>Color Photo Lab 1</td>
<td>0.5</td>
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<td>Course may be repeated three times.</td>
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<tr>
<td></td>
<td>Corequisite: PHTO 140 or PHTO 141 or PHTO 179 or</td>
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<tr>
<td></td>
<td>PHTO 189 or PHTO 199 (as related to color photo process only)</td>
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<td></td>
<td>An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may enroll for any combination of PHTO 382 and PHTO 383 for a total of four semesters. Students may not be concurrently enrolled in PHTO 382 and PHTO 383. <em>(F,S) (P/NP)</em></td>
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<tr>
<td>PHTO 383</td>
<td>Color Photo Lab 2</td>
<td>1</td>
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<td>Course may be repeated three times.</td>
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<td></td>
<td>Corequisite: PHTO 140 or PHTO 141 or PHTO 179 or</td>
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<td></td>
<td>PHTO 189 or PHTO 199 (as related to color photo process only)</td>
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<td>An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may enroll for any combination of PHTO 382 and PHTO 383 for a total of four semesters. Students may not be concurrently enrolled in PHTO 382 and PHTO 383. <em>(F,S) (P/NP)</em></td>
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<td>PHTO 384</td>
<td>Digital Photo Lab 1</td>
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<td>Course may be repeated three times.</td>
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<tr>
<td></td>
<td>Corequisite: PHTO 170 or PHTO 171 or PHTO 179 or</td>
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<td>PHTO 189 or PHTO 199 (as related to digital photo process only)</td>
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<td></td>
<td>An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may enroll for any combination of PHTO 384 and PHTO 385 for a total of four semesters. Students may not be concurrently enrolled in PHTO 384 and PHTO 385. <em>(F,S) (P/NP)</em></td>
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<tr>
<td>PHTO 385</td>
<td>Digital Photo Lab 2</td>
<td>1</td>
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<td></td>
<td>Course may be repeated three times.</td>
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<tr>
<td></td>
<td>Corequisite: PHTO 170 or PHTO 171 or PHTO 179 or</td>
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<td></td>
<td>PHTO 189 or PHTO 199 (as related to digital photo process only)</td>
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<td></td>
<td>An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may enroll for any combination of PHTO 384 and PHTO 385 for a total of four semesters. Students may not be concurrently enrolled in PHTO 384 and PHTO 385. <em>(F,S) (P/NP)</em></td>
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### PHYSICAL EDUCATION

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PE 101</td>
<td>Introduction to Kinesiology</td>
<td>3</td>
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<tr>
<td></td>
<td>Acceptable for credit: CSU</td>
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<td></td>
<td>An introduction to the discipline of kinesiology including the importance, philosophy, history and biomechanics of human movement. Students will be exposed to various professional opportunities available to those pursuing an education in the field of exercise science. Students will also examine ways of understanding and studying human movement and its role and significance in daily life. <em>(F,S) (GR/P/NP)</em></td>
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<tr>
<td>PE 104</td>
<td>Sports Psychology</td>
<td>3</td>
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<td>Acceptable for credit: CSU</td>
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<td></td>
<td>Designed to provide mental and psychological considerations as they relate to sport and exercise. Students will learn how various subjects impact the participation in and execution of sport in both individual and team settings. Subjects such as leadership and communication, goal setting, anxiety, team cohesion, burnout, and drug abuse will be discussed. <em>(F,S) (GR/P/NP)</em></td>
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<tr>
<td>PE 106</td>
<td>Sports Officiating</td>
<td>3</td>
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<td>Acceptable for credit: CSU</td>
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<td></td>
<td>An introduction to the basics of sports officiating with emphasis on the following sports: baseball/softball, basketball, football, soccer and volleyball. Includes application of contest rules, officiating mechanics, officiating styles and professional responsibilities applicable to each sport covered. Students will learn about ethical considerations, effective communication, decision making skills and conflict resolution as they relate to professional officiating. <em>(F,S) (GR/P/NP)</em></td>
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<tr>
<td>PE 108</td>
<td>First Aid-CPR: Educator/Coach</td>
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<td>Acceptable for credit: CSU</td>
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<td></td>
<td>This course is designed to allow students who are considering a kinesiology-based profession to develop the necessary knowledge and skills to successfully respond in various first aid and safety circumstances which may arise in their distinctive work environment as a professional educator/coach. Topics include: injury prevention; sudden illness; heat/cold related injuries; responding to acute asthmatic emergencies; soft tissue, muscular, bone and joint injuries; responding to unconscious or choking persons; and cardiac emergencies. At the end of the course, students will be American Red Cross “lay responder” certified in first aid, AED, and adult, child and infant CPR. Students will be certified at the “professional rescuer” level. Students must obtain and review the required textbook prior to the first class meeting. <em>(F,S) (GR/P/NP)</em></td>
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<tr>
<td>PE 110</td>
<td>Baseball Techniques &amp; Theory</td>
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<td></td>
<td>Acceptable for credit: CSU, UC-CL</td>
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<td></td>
<td>Advisory: PE 165 or PEIA 140</td>
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<td></td>
<td>The study and application of the theories and techniques of teaching and coaching baseball. <em>(F) (GR/P/NP)</em></td>
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<tr>
<td>PE 112</td>
<td>Football Techniques &amp; Theory</td>
<td>3</td>
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<td></td>
<td>Acceptable for credit: CSU, UC-CL</td>
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<tr>
<td></td>
<td>Advisory: PE 168 or PEIA 100</td>
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<tr>
<td></td>
<td>The study and application of the theories and techniques of teaching and coaching football. <em>(S) (GR/P/NP)</em></td>
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<td>Course Code</td>
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<tr>
<td>PE 120 Swimming</td>
<td>Course may be repeated three times.</td>
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<tr>
<td></td>
<td>An introduction to swimming, mastering the</td>
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<tr>
<td></td>
<td>skills of the crawl stroke and elementary</td>
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<td></td>
<td>backstroke and learning personal</td>
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<td></td>
<td>safety skills such as floating, treading</td>
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<td></td>
<td>water and elementary forms of rescue.</td>
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<tr>
<td>PE 121 Swim Fitness Lab</td>
<td>Course may be repeated three times.</td>
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<td></td>
<td>Advisory: PE 120</td>
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<tr>
<td></td>
<td>Designed to permit students to develop</td>
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<tr>
<td></td>
<td>skills and improve and maintain overall</td>
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<tr>
<td></td>
<td>physical fitness and cardiovascular</td>
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<tr>
<td></td>
<td>conditioning in a low impact aquatic</td>
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<tr>
<td></td>
<td>environment with flexible scheduling.</td>
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<td></td>
<td>Students may enroll for any combination of</td>
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<tr>
<td></td>
<td>PE 121 and 122 for a total of four</td>
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<tr>
<td></td>
<td>semesters. Students may not be concurrently</td>
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<tr>
<td></td>
<td>enrolled in PE 122.</td>
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<tr>
<td>PE 122 Swim Fitness Lab</td>
<td>Course may be repeated three times.</td>
<td>0.5</td>
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<td></td>
<td>Advisory: PE 120</td>
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<tr>
<td></td>
<td>Designed to permit students to develop</td>
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<tr>
<td></td>
<td>skills and improve and maintain overall</td>
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<td></td>
<td>physical fitness and cardiovascular</td>
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<td></td>
<td>conditioning in a low impact aquatic</td>
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<td></td>
<td>environment with flexible scheduling.</td>
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<td></td>
<td>Students may enroll for any combination of</td>
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<td></td>
<td>PE 121 and 122 for a total of four</td>
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<td></td>
<td>semesters. Students may not be concurrently</td>
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<tr>
<td></td>
<td>enrolled in PE 121.</td>
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<tr>
<td>PE 123 Aerobic Swimming</td>
<td>Course may be repeated three times.</td>
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<td></td>
<td>Advisory: PE 120</td>
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<tr>
<td></td>
<td>Designed to permit students to become</td>
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<tr>
<td></td>
<td>familiar with the concepts of swimming as</td>
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<tr>
<td></td>
<td>an alternative aerobic conditioning program.</td>
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<tr>
<td>PE 130 Self Defense</td>
<td>Course may be repeated one time.</td>
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<td></td>
<td>Advisory: PE 120</td>
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<tr>
<td></td>
<td>Affords all students the opportunity to</td>
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<td></td>
<td>become proficient in basic self-defense</td>
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<td></td>
<td>skills. Particularly suited for women and</td>
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<td></td>
<td>does not require any prior martial arts</td>
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<td></td>
<td>training.</td>
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<tr>
<td>PE 131 Tai Chi for Health</td>
<td>Course may be repeated three times.</td>
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<td></td>
<td>Advisory: PE 120</td>
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<td></td>
<td>Affords all students the opportunity to</td>
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<td></td>
<td>become proficient in basic self-defense</td>
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<td></td>
<td>skills. Particularly suited for women and</td>
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<td></td>
<td>does not require any prior martial arts</td>
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<td></td>
<td>training.</td>
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<tr>
<td>PE 132 Cardio Kickboxing</td>
<td>Course may be repeated three times.</td>
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<td></td>
<td>Designed to teach a variety of kickboxing</td>
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<td></td>
<td>movements while developing aerobic and</td>
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<td></td>
<td>strength conditioning.</td>
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<tr>
<td>PE 133 Yoga Fitness</td>
<td>Course may be repeated three times.</td>
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<tr>
<td></td>
<td>Good body alignment, improved posture and</td>
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<td></td>
<td>breathing techniques that help the mind</td>
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<td></td>
<td>focus on using strength to achieve</td>
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<tr>
<td></td>
<td>optimal physical functioning are covered.</td>
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<tr>
<td>PE 134 Martial Arts Techniques</td>
<td>Course may be repeated three times.</td>
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<tr>
<td></td>
<td>Introduction to basic techniques from more</td>
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<tr>
<td></td>
<td>than 10 different martial arts systems.</td>
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<tr>
<td>PE 140 Physical Fitness Lab</td>
<td>Course may be repeated three times.</td>
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<tr>
<td></td>
<td>Designed to permit students to build muscle</td>
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<tr>
<td></td>
<td>mass and strength, as well as develop</td>
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<td></td>
<td>overall physical fitness and cardiovascular</td>
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<td></td>
<td>conditioning. Provides students with the</td>
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<tr>
<td></td>
<td>opportunity to utilize sophisticated</td>
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<td></td>
<td>conditioning equipment to accomplish their</td>
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<td></td>
<td>individualized conditioning goals. Three</td>
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<td></td>
<td>hours per week with flexible scheduling.</td>
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<td></td>
<td>Students may enroll for any combination of</td>
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<td></td>
<td>PE 140 and PE 141 for a total of four</td>
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<td></td>
<td>semesters. Students may not be concurrently</td>
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<tr>
<td></td>
<td>enrolled in PE 141 or PE 145.</td>
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<tr>
<td>PE 141 Physical Fitness Lab</td>
<td>Course may be repeated three times.</td>
<td>0.5</td>
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<tr>
<td></td>
<td>Designed to permit students to build muscle</td>
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<tr>
<td></td>
<td>mass and strength, as well as develop</td>
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<td></td>
<td>overall physical fitness and cardiovascular</td>
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<tr>
<td></td>
<td>conditioning. Provides students with the</td>
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<td></td>
<td>opportunity to utilize sophisticated</td>
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<td></td>
<td>conditioning equipment to accomplish their</td>
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<tr>
<td></td>
<td>individualized conditioning goals. Three</td>
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<td></td>
<td>hours per week with flexible scheduling.</td>
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<td></td>
<td>Students may enroll for any combination of</td>
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<tr>
<td></td>
<td>PE 140 and PE 141 for a total of four</td>
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<td></td>
<td>semesters. Students may not be concurrently</td>
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<tr>
<td></td>
<td>enrolled in PE 140 or PE 145.</td>
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<tr>
<td>PE 142 Low Impact Conditioning Exercise</td>
<td>Course may be repeated three times.</td>
<td>1</td>
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<td></td>
<td>Provides ways for students to improve</td>
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<td></td>
<td>fitness level by using principles of</td>
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<td></td>
<td>cardiovascular conditioning, flexibility,</td>
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<td></td>
<td>strength, coordination and endurance</td>
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<td></td>
<td>training. Special attention is given to</td>
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<td></td>
<td>proper motion, but not required for</td>
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<tr>
<td></td>
<td>participation.</td>
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<tr>
<td>PE 143 Step Aerobics</td>
<td>Course may be repeated three times.</td>
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<tr>
<td></td>
<td>An aerobic exercise program that utilizes</td>
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<tr>
<td></td>
<td>a platform for stepping up and down. This</td>
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<tr>
<td></td>
<td>high intensity, low impact activity</td>
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<tr>
<td></td>
<td>accommodates students at all fitness levels.</td>
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<tr>
<td>PE 144 Weight Training</td>
<td>Course may be repeated three times.</td>
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<tr>
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<td>Designed to teach students the fundamentals</td>
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<td></td>
<td>of weight lifting, including proper lifting</td>
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<tr>
<td></td>
<td>techniques and safety in the weight room.</td>
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</table>
for golf shots up to 100 yards. (A) (GR/P/NP)

strength and flexibility with stability. (A) (GR/P/NP)

trained to work with other torso muscles to achieve total motion, the abdominal and back muscles in particular are critical. (F,S,U) (GR/P/NP)

A novel method of building strength and improving balance and coordination. By working through a large range of motion, the abdominal and back muscles in particular are trained to work with other torso muscles to achieve total strength and flexibility with stability. (A) (GR/P/NP)

PE 146 Strength & Flexibility 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

Designed to stretch, strengthen, tone muscles and improve body alignment using specific flexibility exercises and free weights. (F,S,U) (GR/P/NP)

PE 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated three times.
Acceptable for credit: CSU, UC–DAT

For course description, see "Cooperative Work Experience: Occupational."

PE 154 Jogging/Walking 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

Students improve cardiovascular and muscular physical fitness levels and flexibility. (F,S,U) (GR/P/NP)

PE 156 Golf 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

Introduction to golf, elementary golf skills and the values and challenge of the game. Emphasis on developing a sound, repeating one-piece golf swing. Range practice. (F,S,U) (GR/P/NP)

PE 157 Golf: The Short Game 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

Designed to provide instruction and practice in the skills and strategies of the short game of golf. Emphasizes techniques for golf shots up to 100 yards. (A) (GR/P/NP)

PE 160 Tennis 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

Designed to equip the student with the necessary knowledge and skills to become proficient enough to enjoy the game of tennis and participate at the beginning level. Fundamental strokes and strategy will be stressed. (F,S,U) (GR/P/NP)

PE 161 Body-Ball Workout 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

A novel method of building strength and improving balance and coordination. By working through a large range of motion, the abdominal and back muscles in particular are trained to work with other torso muscles to achieve total strength and flexibility with stability. (A) (GR/P/NP)

PE 164 Soccer 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

Designed to prepare students to learn soccer and the rules of soccer. Fundamentals, strategy and techniques will be stressed. (F,S,U) (GR/P/NP)

PE 165 Advanced Baseball 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

Advisory: At least two years varsity baseball experience or instructor approval.

Limitation on enrollment: For safety purposes, students should understand rules and guidelines of baseball, in addition to performing necessary physical skills in order to effectively prepare to compete at an intercollegiate level.

Advanced baseball is designed as an off-season skill training and conditioning class in preparation for intercollegiate baseball competition. Students should have the necessary physical skills required to effectively prepare for competition at an intercollegiate level. (F,S,U) (GR/P/NP)

PE 167 Basketball 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

At an intercollegiate level. (F,S,U) (GR/P/NP)

This course stresses the development of fundamental skills, basic team offense and defense and physical conditioning. (F,S,U) (GR/P/NP)

PE 168 Touch Football 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

Basic team offense and defense and physical conditioning. Advisory: At least two years varsity baseball experience or instructor approval.

Limitation on enrollment: For safety purposes, students should understand rules and guidelines of baseball, in addition to performing necessary physical skills in order to effectively prepare to compete at an intercollegiate level.

Advanced baseball is designed as an off-season skill training and conditioning class in preparation for intercollegiate baseball competition. Students should have the necessary physical skills required to effectively prepare for competition at an intercollegiate level. (F,S,U) (GR/P/NP)

PE 165 Advanced Baseball 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

Advisory: At least two years varsity baseball experience or instructor approval.

Limitation on enrollment: For safety purposes, students should understand rules and guidelines of baseball, in addition to performing necessary physical skills in order to effectively prepare to compete at an intercollegiate level.

Advanced baseball is designed as an off-season skill training and conditioning class in preparation for intercollegiate baseball competition. Students should have the necessary physical skills required to effectively prepare for competition at an intercollegiate level. (F,S,U) (GR/P/NP)

PE 167 Basketball 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

At an intercollegiate level. (F,S,U) (GR/P/NP)

This course stresses the development of fundamental skills, basic team offense and defense and physical conditioning. (F,S,U) (GR/P/NP)

PE 168 Touch Football 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

Basic team offense and defense and physical conditioning. Advisory: At least two years varsity baseball experience or instructor approval.

Limitation on enrollment: For safety purposes, students should understand rules and guidelines of baseball, in addition to performing necessary physical skills in order to effectively prepare to compete at an intercollegiate level.

Advanced baseball is designed as an off-season skill training and conditioning class in preparation for intercollegiate baseball competition. Students should have the necessary physical skills required to effectively prepare for competition at an intercollegiate level. (F,S,U) (GR/P/NP)

PE 167 Basketball 1 unit
Course may be repeated three times.
Acceptable for credit: CSU, UC–CL

At an intercollegiate level. (F,S,U) (GR/P/NP)

This course stresses the development of fundamental skills, basic team offense and defense and physical conditioning. (F,S,U) (GR/P/NP)

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Acceptable for credit: CSU, UC–CL

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PE 168 Touch Football 1 unit
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Basic team offense and defense and physical conditioning. Advisory: At least two years varsity baseball experience or instructor approval.

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Advanced baseball is designed as an off-season skill training and conditioning class in preparation for intercollegiate baseball competition. Students should have the necessary physical skills required to effectively prepare for competition at an intercollegiate level. (F,S,U) (GR/P/NP)
PHYSICAL EDUCATION
INTERCOLLEGIATE ATHLETICS

PEIA 100 Intercollegiate Football 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(F) (GR/P/NP)

PEIA 105 Intercollegiate Soccer, Women 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(F) (GR/P/NP)

PEIA 110 Intercollegiate Soccer, Men 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(F) (GR/P/NP)

PEIA 120 Intercollegiate Cross Country 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(F) (GR/P/NP)

PEIA 125 Intercollegiate Volleyball 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(F) (GR/P/NP)

PEIA 130 Intercollegiate Basketball, Men 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(F,S) (GR/P/NP)

PEIA 135 Intercollegiate Basketball, Women 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(F,S) (GR/P/NP)

PEIA 140 Intercollegiate Baseball 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(S) (GR/P/NP)

PEIA 145 Intercollegiate Softball 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(S) (GR/P/NP)

PEIA 150 Intercollegiate Track, Men 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(S) (GR/P/NP)

PEIA 155 Intercollegiate Track, Women 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(S) (GR/P/NP)

PEIA 160 Intercollegiate Tennis, Men 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(S) (GR/P/NP)

PEIA 165 Intercollegiate Tennis, Women 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(S) (GR/P/NP)

PEIA 170 Intercollegiate Golf, Men 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(S) (GR/P/NP)

PEIA 175 Intercollegiate Golf, Women 3 units
Course may be repeated one time.
Acceptable for credit: CSU, UC
Limitation on enrollment: Athletic eligibility
(S) (GR/P/NP)

PHYSICAL SCIENCE

PHSC 111 Matter & Energy 4 units
Acceptable for credit: CSU, UC-CL
Introduction to the basic principles of physical science and applications of these principles in everyday life. Measurement, force and motion, work and energy, heat, waves, electricity, atomic physics, compounds, molecules and ions will be explored. (F) (GR/P/NP)

PHSC 112 Earth & the Universe 4 units
Acceptable for credit: CSU, U-CL
Introduction to the basic principles of astronomy and earth sciences and applications of these principles to everyday life. Topics include the solar system, stars, galaxies and cosmology, structure and formation of the earth, earthquakes, plate tectonics, the atmosphere and weather. (S) (GR/P/NP)

PHSC 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”
PHYSICS

PHYS 100 Concepts in Physics 3 units
Acceptable for credit: CSU, UC
Advisory: Eligibility for ENGL 101 or ENGL 301 or ENGL 514 and MATH 311
An overview of the major areas of physics. Emphasis is on concepts, applications and the consequences for modern life. An historical perspective on the development of physical theory and its impact on civilization is explored. (F,S) (GR/P/NP)

PHYS 110 Introductory Physics 3 units
Acceptable for credit: CSU, UC-CL
Prerequisite: MATH 121 or MATH 141 or MATH 181 or MATH 182 or MATH 183 or MATH 184
An introduction to physics with emphasis on units, vectors and the definitions of physical variables. Tools and strategies necessary to be successful in PHYS 161 are covered. (F,S) (GR/P/NP)

PHYS 141 General Physics 1 4 units
Acceptable for credit: CSU, UC - CL
Prerequisite: MATH 141 or completion of or concurrent enrollment in MATH 121
The initial semester of a two-semester introduction to trig-based physics. Emphasizes the origin, nature and application of fundamental concepts and principles. Required for most life science and engineering technology majors. Discusses motion, mechanics of particles and systems of particles, rigid, elastic and fluid systems, vibrations, wave motion and sound. (F) (GR/P/NP)

PHYS 142 General Physics 2 4 units
Acceptable for credit: CSU, UC-CL
Prerequisite: PHYS 141
A continuation of PHYS 141. Discusses heat, thermodynamics, electricity, magnetism, geometric and physical optics, atomic and nuclear physics. (S) (GR/P/NP)

PHYS 161 Engineering Physics 1 5 units
Acceptable for credit: CSU, UC-CL
Prerequisite: PHYS 110 and MATH 182 (may be taken concurrently)
The initial semester of a three-semester course in calculus-based physics which emphasizes the origin, nature and application of fundamental concepts and principles. Required for most baccalaureate majors in the physical sciences, engineering and mathematics. Emphasizes mechanics, including measurement, linear and planar motion, statics and dynamics of particles and systems of particles, rigid, elastic and fluid systems. (F,S) (GR/P/NP)

PHYS 162 Engineering Physics 2 5 units
Acceptable for credit: CSU, UC-CL
Prerequisite: PHYS 161 and MATH 182
A continuation of PHYS 161 that discusses temperature, heat, thermodynamics, simple harmonic and wave motion, sound, geometric and physical behavior of light, as well as topics in modern physics, which may include the special theory of relativity and the quantum theory of atomic and nuclear systems. (F) (GR/P/NP)

PHYS 163 Engineering Physics 3 5 units
Acceptable for credit: CSU, UC - CL
Prerequisite: PHYS 161 and MATH 182
Advisory: Completion of or concurrent enrollment in MATH 183 is recommended.
A continuation of PHYS 161 which discusses electrostatic forces, fields and potentials, steady electric currents and circuits, magnetic forces and fields, induced electric and magnetic fields, electric and magnetic properties of continuous media, reactive circuits and electromagnetic waves. (S) (GR/P/NP)

PHYS 189 Independent Projects in Physics 0.5 to 3 units
For course description, see "Independent Projects."

PHYSICAL SCIENCE

PHSC 179, 379 Experimental Courses in Physical Science 0.5 to 10 units
Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

PHSC 199 Special Topics in Physical Sciences 0.5 to 3 units
Acceptable for credit: CSU
For course description, see "Special Topics."

POLITICAL SCIENCE

POLS 101 Intro to Political Science 3 units
Acceptable for credit: CSU, UC
An introductory course examining a variety of approaches to the study of political science with particular emphasis on the American political system in comparative perspective. Topics discussed include nature of politics, comparative politics, selected political philosophers, principles of government, methods used by political scientists and American government. This course satisfies part of the history and government requirements for the California State Colleges and Universities and Allan Hancock College. Students receiving credit must demonstrate satisfactory knowledge about national and state government. (F,S) (GR/P/NP)

POLS 103 American Government 3 units
Acceptable for credit: CSU, UC
A study of American government at the national, state and local levels. Governmental principles, institutions and their historical development are examined. This course satisfies part of the history and government requirements for the California State Colleges and Universities, University of California, Allan Hancock College and many private colleges. (F,S) (GR/P/NP)

POLS 104 Intro to International Relations 3 units
Acceptable for credit: CSU, UC
A study of the forces and conditions involved in the actions, interactions and relations of nations and organizations within the international system. Emphasis is placed on the sources and ramifications of contemporary international problems. (S) (GR/P/NP)
PSY 101 General Psychology
3 units
Acceptable for credit: CSU, UC
An introduction to the concepts, methods and techniques of psychology, covering topics such as maturation, motivation, emotion, thought and feeling. (F,S,U) (GR)

PSY 104 Social Science Research Method
3 units
Acceptable for credit: CSU, UC
Advisory: SOC 101 or PSY 101
An introduction to sociological/psychological research methods. Presents the research process from topic selection through data collection for a variety of methods such as surveys, experiments, in-depth interviews, content analysis and comparative/historical research. This course is not open to students who are enrolled in or have received credit for SOC 104. (F,S) (GR/P/NP)

PSY 106 Alcohol, Drugs & Addiction
3 units
Acceptable for credit: CSU
An overview of the role of alcohol and other drugs in society with emphasis on such topics as patterns of use; major categories of drugs; explanations of use, abuse and dependency; as well as prevention, intervention and treatment. This course is not open to students who are enrolled in or have received credit for HUSV 106 or SOC 106. (F,S) (GR/P/NP)

PSY 112 Human Sexuality
3 units
Acceptable for credit: CSU, UC
An introductory survey of the sociological and psychological bases and dimensions of human sexuality, emphasizing social patterns of sexual behavior, sexuality and the life cycle, sex and society and sexual problems. (F,S) (GR/P/NP)

PSY 113 Theories of Personality
3 units
Acceptable for credit: CSU, UC
Study of major contemporary personality theories with an emphasis on psychological health, principles of adjustment and growth. (F,S) (GR/P/NP)

PSY 115 Behavior Modification
3 units
Acceptable for credit: CSU
Advisory: PSY 101 is recommended
Examination of the theories, principles and techniques integral to behavior management, emphasizing the effective use of reinforcement, operant and classical conditioning and biofeedback. The course is of special interest to social service, prenursing, psychology and education majors. (S) (GR/P/NP)

PSY 116 Death & Dying
3 units
Acceptable for credit: CSU, UC
Explores issues related to death and dying over the lifespan, including historical and cross-cultural perspectives, death socialization, medical ethics and the health-care system, legal issues and after-life concerns. (S) (GR/P/NP)

PSY 117 Child Psychology
3 units
Acceptable for credit: CSU, UC
Prerequisite: PSY 101
Studies the development of the child from conception through adolescence; examines various psychological theories underlying this development; and offers suggestions for effective parent-child relations. Various childhood disorders and available therapies are discussed. (F,S) (GR/P/NP)

PSY 118 Human Development-Lifespan
3 units
Acceptable for credit: CSU, UC
Prerequisite: Eligibility for ENGL 101 or completion of ENGL 301 or 514
A balanced study of basic theories, research and principles of physical, cognitive and psychosocial development from conception to death is presented in an integrated manner; includes behavior, sexuality, nutrition, health, stress, environmental relationships and implications of death and dying. (F2) (GR)

PSY 119 Abnormal Psychology
3 units
Acceptable for credit: CSU, UC
Advisory: PSY 101
A survey of abnormal psychology reviewing patterns, causes and theories of maladaptive behavior, clinical assessment, therapies and prevention of psychological disorders. (S) (GR)

PSY 120 Cultural Psychology
3 units
Acceptable for credit: CSU, UC
Prerequisite: PSY 101
A study of basic theories, research and applications in cultural psychology. The impact of cultural background, including beliefs, traditions, values, the economy and political institutions on human behavior, emotions, cognitions, self concept and mental health will be explored. Students will examine traditional psychological theories from a cross-cultural perspective and apply the theory and research to areas such as gender roles, ethnic stereotypes, mental health, counseling techniques and political negotiation. The study of human behavior in other cultures will help students understand the impact of their own cultural traditions. (F,S) (GR)

PSY 121 Social Psychology
3 units
Acceptable for credit: CSU
Prerequisite: PSY 101 and SOC 101 and eligibility for ENGL 101 or completion of ENGL 301 or 514
An examination of how human behavior, attitudes, emotions and thoughts are affected by the social situation. Topics include self-concept, intimate relationships, prejudice, obedience to authority, social influence, group decision making and multicultural relations. The use of social psychology in understanding diversity, sexism and international conflicts is discussed. This course is not open to students who are enrolled in or who have received credit for SOC 121. (F,S) (GR)
PSY 122 States of Consciousness 3 units
Acceptable for credit: CSU
An exploration of different states of consciousness, the means of attaining those states, their uses, misuses and consequences. Topics include theories of consciousness, substance use and abuse, sleep, dreams, hypnosis, dissociation, out-of-body states, near-death experiences, psychic and paranormal phenomena, religious ecstasy and conversion, alternative religions, meditation and prayer, culture-bound syndromes, non-Western methods of altering consciousness and peak experiences. This course is not open to students who are enrolled in or who have received credit for HUSV 122 or ANTH 122. (F,S) (GR)

PSY 127 Emotional Intelligence 3 units
Acceptable for credit: CSU
An introduction to emotional intelligence – a set of abilities and skills concerned with perceiving and managing emotional states in oneself and others. The neurobiology of emotions, how emotional states “hijack” people’s behavior and the application of emotional intelligence in a variety of personal and interpersonal situations are emphasized. This course is not open to students who are enrolled in or who have received credit for HUSV 127. (F,S) (GR/P/NP)

PSY 128 Positive Psychology 3 units
Acceptable for credit: CSU
An introduction to the psychological study of the positive, adaptive, creative and emotionally fulfilling elements of human behavior and the factors that contribute to people being happy, productive and well adjusted. This course is not open to students who are enrolled in or who have received credit for HUSV 128. (F,S) (GR/P/NP)

PSY 132 Drugs, the Brain & the Body 3 units
Acceptable for credit: CSU, UC
Advisory: HUSV 110 or SOC 106 or PSY 106 is strongly recommended.
Overview of the pharmacology of drugs of abuse with emphasis on drug effects, how drug effects occur, how the body processes drugs and health consequences of drug abuse. Physiologic aspects of addiction and tolerance are explored. Pharmacologic interventions are integrated with other substance abuse modalities. This course is not open to students who are enrolled in or have received credit for HUSV 132. (F) (GR/P/NP)

PSY 142 Co-occurring Disorders: Assess 3 units
Acceptable for credit: CSU
Concepts, definitions and features of co-occurring mental health and substance use disorders emphasizing attainment of empathic engagement with persons who have these disorders. This course is not open to students who are enrolled in or have received credit for HUSV 142. (F,S) (GR/P/NP)

PSY 143 Co-occurring Disorders: Treatment 3 units
Acceptable for credit: CSU
Prerequisite: HUSV 142
A study of the treatment of persons who have both psychiatric problems and alcohol or other drug use problems. This course is not open to students who are enrolled in or have received credit for HUSV 143. (F,S) (GR/P/NP)

PSY 189 Independent Projects in Psychology 1 to 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Independent Projects.”

PSY 199 Special Topics Courses in Psychology 0.5 to 3 units
179 - Acceptable for credit: CSU, UC-DAT
For course description, see “Special Topics.”

READ 110 Advanced College Reading 2 units
Acceptable for credit: CSU
Prerequisite: A recommended placement based on the START process or READ 310
Designed to equip students with effective reading skills for success in college courses. Emphasis is on improving reading rates and comprehension and developing effective text analysis. (F,S,U) (GR/P/NP)

READ 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”

READ 310 Intermediate College Reading 3 units
Prerequisite: A recommended placement based on the START process or READ 510
Designed to develop reading skills necessary for success in college. Emphasis is on improving literal, inferential and critical comprehension. (F,S,U) (P/NP)

READ 510 Beginning College Reading 4 units
Prerequisite: A recommended placement based on the START process
Designed to introduce students to reading skills necessary for success in college. Emphasis is on improving reading comprehension and developing vocabulary. (F,S,U) (P/NP)
Emphasis will be placed on the planning of activities such as settings. Both individual and team sports will be studied. Programming sports activities in a variety of recreational settings. (F,S,U) (GR/P/NP)

An exploration of recreational program planning including the planning actual events. (F,S,U) (GR/P/NP)

A comprehensive introduction to the property management profession for those seeking to enter the field, those already in the management field and real estate practitioners seeking to broaden their education beyond listing and selling. (F,S) (GR/P/NP)

A study of the theories of leadership, leadership behaviors, principles and procedures of leadership and supervisory responsibilities as applied by the recreation leader. Techniques for working with small groups, large groups and specific clientele will also be presented. (F,S,U) (GR/P/NP)

An exploration of recreational program planning including organization, implementation and evaluation in both public and private settings. The interrelationship of needs and interests of people, physical settings and activity content are covered. (F,S,U) (GR/P/NP)

An examination of the theories and practices of programming sports activities in a variety of recreational settings. Both individual and team sports will be studied. Emphasis will be placed on the planning of activities such as leagues, instructional programs, tournaments and sports festivals. This class will study the development and operation of sports venues. Students will gain experience by planning actual events. (F,S,U) (GR/P/NP)
**SOCIOLOGY**

- **SPANISH**

- **SPACE OPERATIONS**

### Spanisch

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tr>
<td>SPAN 101</td>
<td>Elementary Spanish</td>
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<td>Acceptable for credit: CSU, UC</td>
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<td>An introduction to current Spanish, stressing</td>
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<td>pronouncing, understanding, speaking, writing</td>
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<td>and reading the language. In a question and</td>
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<td>answer format, students receive oral and</td>
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<td>written practice in sentence structure,</td>
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<td>vocabulary and idiomatic Spanish. Includes</td>
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<td>an introduction to some cultural aspects of the</td>
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<td>Spanish-speaking world. This course is not</td>
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<td>open to students who are enrolled in or have</td>
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<td>received credit for SPAN 121. (F,S,U) (GR/P/NP)</td>
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<tr>
<td>SPAN 102</td>
<td>Elementary Spanish</td>
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<td>Acceptable for credit: CSU, UC</td>
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<td></td>
<td>Prerequisite: SPAN 101 or SPAN 121</td>
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<td>A continuation of SPAN 101, emphasizing oral</td>
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<td>and written participation and continuing the</td>
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<td></td>
<td>cultural introduction to some aspects of</td>
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<td></td>
<td>Hispanic history, art, music, customs and</td>
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<td>folklore. (F,S) (GR/P/NP)</td>
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<td>SPAN 103</td>
<td>Intermediate Spanish</td>
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<td>Acceptable for credit: CSU, UC</td>
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<td></td>
<td>Prerequisite: SPAN 102</td>
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<td></td>
<td>A review of Spanish grammar, with practice in</td>
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<td>reading, writing and conversation. Includes</td>
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<td>some cultural and historical study of the</td>
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<td></td>
<td>Spanish-speaking world. (F,S) (GR/P/NP)</td>
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<tr>
<td>SPAN 104</td>
<td>Intermediate Spanish</td>
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<td></td>
<td>Acceptable for credit: CSU, UC</td>
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<td>Prerequisite: SPAN 103</td>
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<td>A review of advanced grammar, with increased</td>
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<td>practice in reading, writing and speaking in</td>
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<td>Spanish. Continues the study of Hispanic culture</td>
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<td></td>
<td>and history begun in SPAN 103 and introduces</td>
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<td>the students to contemporary Hispanic literature.</td>
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<td>(F,S) (GR/P/NP)</td>
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<td>SPAN 105</td>
<td>Adv Composition &amp; Grammar</td>
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<td>Prerequisite: SPAN 104</td>
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<td>A review of grammar with increased practice in</td>
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<td>reading, writing and speaking in Spanish at the</td>
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<td>advanced level. Essay writing, writing as a</td>
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<td>communicative and solitary process and the</td>
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<td>skills necessary to manage the writing</td>
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<td>interaction will be emphasized. Use of</td>
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<td>authentic Spanish-language literary works</td>
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<td>provides the medium for essay production and</td>
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<td>class discussions. (A) (GR/P/NP)</td>
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<td>SPAN 106</td>
<td>Intermediate Spanish Conversation</td>
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<td>Prerequisite: SPAN 101 or SPAN 121</td>
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<td>Designed to help students sharpen their</td>
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<td>conversational skills in Spanish by increasing</td>
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<td>their vocabularies and perfecting grammatical</td>
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<td>structures learned in SPAN 101. Emphasis is on</td>
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<td>improving aural-oral skills. (U) (GR/P/NP)</td>
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<td>SPAN 107</td>
<td>Advanced Spanish</td>
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<td>Acceptable for credit: CSU, UC</td>
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<td>Prerequisite: SPAN 104</td>
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<td>Designed for students who have completed one</td>
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<td>year of college Spanish (SPAN 101 and 102),</td>
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<td>emphasizing oral practice of the basic</td>
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<td>structures learned in SPAN 101 and the</td>
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<td>expansion of the students' vocabularies. (F,S)</td>
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level is emphasized. Spanish-language films will be used as springboards for conversation of various themes, topics and cultural experiences. (A) (GR/P/NP)

SPAN 120 Fundamentals of Spanish  3 units
Acceptable for credit: CSU, UC-CL
An introduction to current Spanish, stressing pronouncing, understanding, speaking, reading and writing the language and offering oral and written practice in sentence structure, vocabulary and idiomatic Spanish. Includes an introduction to some aspects of the culture of the Spanish-speaking world. The SPAN 120-121 sequence is equivalent to SPAN 101. This course is not open to students who are enrolled in or have received credit for SPAN 101. (F,S,U) (GR/P/NP)

SPAN 121 Fundamentals of Spanish  3 units
Acceptable for credit: CSU, UC-CL
Prerequisite: SPAN 120
A continuation of SPAN 120, paralleling the material in the second half of SPAN 101. The SPAN 120-121 sequence is equivalent to SPAN 101. This course is not open to students who are enrolled in or have received credit for SPAN 101. (F,S,U) (GR/P/NP)

SPAN 148 Hispanic Literature in Translation  3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
An introduction to Hispanic literature as translated into English focusing on the themes and symbols characteristic of such literature. Cultural differences will be explored. Students will read works both critically and analytically. This course is not open to students who are enrolled in or have received credit for ENGL 148. (F,S) (GR)

SPAN 189 Independent Projects in Spanish  1 to 3 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

SPAN 306 Spanish Language Lab  0.5 unit
Course may be repeated three times.
Corequisite: Enrollment in any AHC Spanish credit course except those that require a lab component as part of their coursework.
Provides students with individualized writing and oral practice using computer-assisted strategies and one-on-one tutoring and/or mentoring. Not open to students enrolled in SPAN 101 or SPAN 102 or any other Spanish course that has a lab component included. (F,S,U) (P/NP)

SPECIAL TOPICS

199/399/499/599 Special Topics Courses  0.5 to 3 units
199 - Acceptable for credit: CSU, UC-DAT
Lecture and/or lab as required by unit formula. Twelve units may be applied toward graduation requirements.
Formerly known as "Institutes" or "Topics In," these are courses designed in specific disciplines to address a specific topic and unique curriculum needs within the college's service area. Each class will carry a specific title relating to the discipline concerned and are not offered on a regular cycle (not within a two year period). These courses are not included in any major core, but may be among the elective units of a program. Special Topics courses labeled 199 are transferable; those labeled 399-599 are non-transferable.

SPEECH COMMUNICATION

SPCH 101 Public Speaking  3 units
Acceptable for credit: CSU, UC
An introduction to the theory and practice of presenting speeches for various situations and audiences. Students become better communicators by learning how to appropriately select a topic, research, organize, outline and effectively present informative, persuasive and special occasion speeches. (F,S,U) (GR/P/NP)

SPCH 102 Small Group Communication  3 units
Acceptable for credit: CSU, UC
Provides an introduction to the dynamics of communication in task-oriented groups. Through practice and research, students will explore group discussion theory including problem solving, decision making, verbal/nonverbal communication, leadership styles, conflict management, participation and roles. Oral group presentations are required. (F,S,U) (GR/P/NP)

SPCH 103 Interpersonal Communication  3 units
Acceptable for credit: CSU, UC
Explores the theories regarding conversational behavior as it is generated, enacted and understood in social and intimate relational contexts. Areas of study will include nonverbal messages, language, perception, power, listening, patterns, regulation and communication competence. (F,S,U) (GR/P/NP)

SPCH 106 Argumentation & Debate  3 units
Acceptable for credit: CSU, UC
Advisory: ENGL 101 and SPCH 101 or SPCH 102
An introduction to argumentation theory. Students develop skills in methods of research, organization and delivery of arguments. Emphasis is on the development of logical and articulate arguments for claims. Critical listening and analytical thinking are developed through the application of argumentation theory to speeches, cases and debates. (F,S,U) (GR/P/NP)

SPCH 108 Oral Interpretation  3 units
Acceptable for credit: CSU, UC
Through theory and practice, students will discover and communicate the intellectual, emotional and aesthetic meaning of literature by choosing, analyzing, rehearsing and orally presenting short selections of prose, poetry and drama. (S) (GR/P/NP)

SPCH 110 Intercultural Communication  3 units
Acceptable for credit: CSU, UC
A study of intercultural communication theory. An understanding of cultural aspects and communication problems within and between ethnic groups is emphasized. (F,S) (GR/P/NP)
SPCH 149 Cooperative Work Experience: Occupational

Course may be repeated three times.

Acceptable for credit: CSU, UC-DAT

For course description, see "Cooperative Work Experience Occupational."

SPCH 189 Independent Projects in Speech

1 to 3 units

Course may be repeated three times.

Acceptable for credit: CSU; UC-DAT

For course description, see "Independent Projects."

**WELDING TECHNOLOGY**

WLDT 106 Beginning Welding

3 units

Acceptable for credit: CSU

A course in the theory, practice and application of various metal joining processes, including oxyacetylene welding, brass brazing, flame cutting and electric arc processes and an introduction to both Tig and Mig welding.

(F,S) (GR/P/NP)

WLDT 107 Advanced Welding

3 units

Acceptable for credit: CSU

Prerequisite: WLDT 106

A continuation of WLDT 106, emphasizing position welding of a variety of ferrous metals, using a variety of electrodes used in industries.

(F,S) (GR/P/NP)

WLDT 179, 379 Experimental Courses in Welding Technology

0.5 to 10 units

179 - Acceptable for credit: CSU, UC-AT

For course description, see "Experimental Courses."

WLDT 189, 389 Independent Projects in Welding Technology

1 to 3 units

Course may be repeated three times.

189 - Acceptable for credit: CSU, UC-DAT

For course description, see "Independent Projects."

WLDT 301 Selected Welding Projects

1 unit

Course may be repeated 2 times

Projects selected by the student upon the recommendation of any faculty member and developed under the direct counseling and guidance of the instructional staff in the welding technology disciplines. All work is completed within the welding facilities under the direct supervision of the responsible instructor. The student will develop the skills necessary to complete the project.

(F,S) (GR/P/NP)

WLDT 306 Layout & Fabrication Interpretation

3 units

Prerequisite: WLDT 106

Enables the student welders to interpret working drawings and shop drawings. Students will sketch fabrication and layout schemes for welding and jigs and/or assembly of small projects.

(A) (GR/P/NP)

WLDT 307 G.M.A.W. Welding

3 units

Prerequisite: WLDT 106

Provides students with the theory and practical applications of gas metallic arc welding (G.M.A.W.) and the operation of gas metal arc welding equipment.

(A) (GR/P/NP)

WLDT 308 T.I.G. Welding

3 units

Prerequisite: WLDT 106

Provides students with the theory and practical applications of gas tungsten arc welding and the operation of gas tungsten arc welding equipment.

(A) (GR/P/NP)

WLDT 309 Mini MIG (WMAW)

0.5 unit

This course will give students enough MIG welding background to weld in metal sculpture and ornamental iron classes using 155 power MIG welders.

(A) (GR)

WLDT 312 Pipe Fitting & Welding

3 units

Course may be repeated 2 times

Prerequisite: WLDT 107

Designed to familiarize students with the highly specialized pipe fitting and welding industry and to provide the opportunity for students to develop the skills necessary for entering and advancing in the pipe welding field.

(A) (GR/P/NP)

WLDT 315 Metal Fabrication

4 units

Course may be repeated one time.

Prerequisite: WLDT 107

Provides the student with the opportunity to combine previously learned skills into a system requiring the use of prints, tolerances and specifications.

(A) (GR/P/NP)

WLDT 316 Metal Yard Sculptures

0.5 unit

An introduction to craft and art of creating metal yard sculptures. Emphasis is on creative discovery from fabricated primarily non-ferrous metals, found metal objects and/or commercially available components.

(A) (GR)

WLDT 317 Ornamental Iron 1

0.5 unit

Basics of ornamental iron work including fabrication techniques and safety training.

(A) (GR)

WLDT 318 Welding and Metal Sculpture

0.5 unit

This course will provide an introduction to the art of welding. The student will be able to do light gas welding and brazing to construct individual projects.

(A) (GR)

WLDT 319 Blacksmithing Projects

0.5 unit

Course may be repeated three times.

An opportunity to use blacksmithing in the fabrication of projects developed and assigned by the instructor.

(F) (GR)

WLDT 330 Welding Certification

3 units

Prerequisite: WLDT 107 or WLDT 307 or WLDT 308

Provides the advanced student with the theory and practical application of welding procedures and techniques in preparation for certification in the following areas: gas metal arc welding or shielded metal arc welding or gas tungsten arc welding. These meet the codes as provided by the American Welding Society, American Petroleum Institute, American Society of Mechanical Engineers Standards.

(A) (GR/P/NP)
WLDT 331 Adv Welding Certification Lab  2 units
Course may be repeated two times.
Prerequisite: WLDT 330
Provides the advanced student with the practical application of welding procedures and techniques in preparation for certification in the following areas: gas metal arc welding or shielded metal arc welding or gas tungsten arc welding. These meet the codes as provided by the American Welding Society, American Petroleum Institute, American Society of Mechanical Engineers Standards. (A) (GR/P/NP)

WLDT 333 Welding Certification-SMAW  0.5 unit
This course is to encourage individuals who are near or at completion of preparation for taking their SMAW Certification test either for employment or the completion of their school program. (F) (GR)

WLDT 334 Welding Certification-GMAW  0.5 unit
This course is to encourage individuals who are near or at completion of preparation for taking their GMAW Certification test either for employment or the completion of their school program. (F) (GR)

WLDT 335 Flux Core Arc Welding  0.5 unit
Introduces students to craft flux core welding. Topics include types, uses, safety considerations and fabrication techniques. (A) (GR/P/NP)

WLDT 381 Industrial Mathematics  3 units
Advisory: Eligibility for MATH 511
Designed as the basic mathematics class for the industrial and engineering technology student wishing to gain proficiency in the applications of mathematics to practical situations, including percentage, area, volume, speed ratios of equipment, horsepower and the essentials of plane trigonometry. This course is not open to students who are enrolled in or have received credit for AB 381 or AT 381 or ET 381 or MT 381. (A) (GR/P/NP)

WLDT 399 Special Topics in Welding  0.5 to 3 units
For course description, see "Special Topics."

WFT 101 Wildland Fire Behavior  3 units
Acceptable for credit: CSU
Prerequisite: WFT 302
A study of wildland fire behavior including influences and wildland fire environment factors that lead to making fire behavior predictions. Skills necessary to make spot fire behavior predictions will also be covered. (S) (GR)

WFT 102 Wildfire Safety & Survival  3 units
Acceptable for credit: CSU
Prerequisite: WFT 302
An exploration of the situations and conditions that result in fire shelter deployments, serious injuries and fatalities for wildland firefighters. (F) (GR)

WFT 103 Wildland Fire Operations  3 units
Acceptable for credit: CSU
Prerequisite: WFT 302
An exploration of the command structure and operational processes for ground and air operations in the control of wildland fires. (S) (GR)

WFT 104 Wildland PIO, Prevention & Investigation  3 units
Acceptable for credit: CSU
Prerequisite: WFT 302
Presents the roles and functions of the information officer, emphasizing fire prevention and investigation communications. (F) (GR)

WFT 105 Planning, Logistics & Finance  3 units
Acceptable for credit: CSU
Prerequisite: WFT 302
Explores the functions of planning, logistics and finance as related to the control of wildland fires. (S) (GR)

WFT 149 Cooperative Work Experience: Occupational  1 to 8 units
Course may be repeated three times.
Acceptable for credit: CSU, UC-DAT
For course description, see "Cooperative Work Experience: Occupational."

WFT 301 Introduction to ICS (I-100)  0.5 unit
An introductory course designed to acquaint the student with the principles of the Incident Command System, its structure and terminology. (A) (GR/P/NP)

WFT 302 Basic ICS (I-200)  0.5 unit
A continuation of WFT 301, providing a basic introduction to the Incident Command System (ICS). Develops the foundation necessary for the student to participate as a member of a wildland fire incident. Topics include the principles and features of ICS, an organizational overview, incident facilities, incident resources and common responsibilities. (A) (GR/P/NP)

WFT 303 Intermediate ICS (I-300)  1.5 unit
Prerequisite: WFT 302
A study of the organizational elements within each section of the ICS, staffing considerations and reporting relationships. Not open to students who are enrolled in or who have completed EMS 313. (A) (GR/P/NP)

WFT 304 Advanced ICS (I-400)  1 unit
Prerequisite: WFT 303
A course of study that pertains to ICS relationships and duties of command staff member, agency representatives and activation of the command general staff. Not open to students who are enrolled in or who have completed EMS 314. (A) (GR/P/NP)

WFT 305 Multi-Agency Coordination (I-401)  0.5 unit
Prerequisite: WFT 304
Course describing the major elements associated with developing and implementing an effective multi-agency coordination system. (A) (GR/P/NP)
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Notes</th>
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<tr>
<td>WFT 306</td>
<td>Incident Command System for Executives (I-402)</td>
<td>0.5</td>
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<td>Prerequisite: WFT 305</td>
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<tr>
<td>WFTL 306</td>
<td>Incident Command System for Executives (I-402)</td>
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<td>Course covers the duties of command staff members,</td>
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<td>WFTL 310</td>
<td>Display Processor S-245</td>
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<td>WFTL 311</td>
<td>Check in Recorder/Status Recorder S-248</td>
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<td>WFTL 312</td>
<td>Ordering Manager J-252</td>
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<td>WFTL 313</td>
<td>Receiving &amp; Distribution Manager J-253</td>
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<td>WFTL 314</td>
<td>Base/Camp Manager J-254</td>
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<td>WFTL 315</td>
<td>Equipment Manager J-255</td>
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<td>WFTL 316</td>
<td>Tool &amp; Equipment Specialist J-256</td>
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<td>WFTL 317</td>
<td>Incident Communications Manager J-257</td>
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<td>WFTL 318</td>
<td>Communications Equipment Procedures S-258</td>
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<td>WFTL 319</td>
<td>Security Manager J-259</td>
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<td>WFTL 320</td>
<td>Fire Business Management Principles S-260</td>
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<td>WFTL 321</td>
<td>Personnel Time Recorder J-261</td>
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<td>WFTL 322</td>
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<td>WFTL 323</td>
<td>Claims Manager J-263</td>
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<td>WFTL 324</td>
<td>Compensation Injury Manager J-264</td>
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<td>WFTL 325</td>
<td>Commissary Manager J-266</td>
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<td>WFT 326</td>
<td>Documentation Unit Leader J-342</td>
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<td>WFT 327</td>
<td>Situation Unit Leader J-346</td>
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<td>WFT 328</td>
<td>Demobilization Unit Leader J-347</td>
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<td>WFT 329</td>
<td>Resource Unit Leader J-348</td>
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<td>WFT 330</td>
<td>Facilities Unit Leader J-354</td>
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<td>WFT 331</td>
<td>Ground Support Unit Leader J-355</td>
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<td>WFT 332</td>
<td>Supply Unit Leader J-356</td>
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<td>WFT 333</td>
<td>Food Unit Leader J-357</td>
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<td>WFT 334</td>
<td>Communications Unit Leader J-358</td>
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<td>WFT 335</td>
<td>Medical Unit Leader J-359</td>
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<td>WFT 336</td>
<td>Cost Unit Leader I-362</td>
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<td>WFT 337</td>
<td>Compensation/Claims Unit Leader I-363</td>
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<td>WFT 338</td>
<td>Time Unit Leader I-365</td>
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<td>Procurement Unit Leader I-368</td>
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<td>WFT 340</td>
<td>Planning Section Chief J-440</td>
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<td>WFT 341</td>
<td>Logistics Section Chief J-450</td>
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<td>WFT 342</td>
<td>Finance Section Chief I-460</td>
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<td>WFT 359</td>
<td>Weather Information Management System</td>
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Architectural drafting offers students both a degree and certificate option.
Kathryn T. Adams ...........................................Assistant Professor, English
B.A., M.A., San Jose State University; Ph.D., University of Texas, Austin

Rebecca Alarco ...................... Director, Public Affairs & Publications
B.S., California Polytechnic State University, San Luis Obispo; M.A., Chapman University

Maria Allegre .................................................English
A.A., Ceritos College; B.A., California State University, Long Beach; M.F.A., University of California, Irvine

Hector Alvarez ..................................................Counseling
B.S., California Polytechnic State University, San Luis Obispo

Deborah Anniball...........Coordinator/Instructor Law Enforcement
B.S., Regis College, Colorado

Diane Auten..........................................................Speech
B.A., California Polytechnic State University, San Luis Obispo; M.A., San Jose State University

Alvaro Avila.................Coordinator/Instructor Law Enforcement
B.S., Weber State University; M.S., Kennedy West University

Sheri Bates ..........................................................Physical Education
B.A., College of the Pacific; M.P.E., Idaho State University

Alexandra Bell.....................Student Health Services
B.S., Holy Names University; B.S., National University

Jamie Bennett ..........................................................Geography
B.A., M.A., Arizona State University

Roanna Bennie ...............................Dean, Academic Affairs
B.A., Montana State University; M.A., California State University, Northridge

Gary E. Bierly .....................................Professor, Philosophy
B.A., Pennsylvania State University; M.A., University of California, Davis

Sandra Bierdzinski .................................Librarian
B.S., Bradley University; M.L.I.S., University of Wisconsin, Milwaukee

Donna Bishop .............................................Counselor
A.A., Citrus Community College; B.A., California State University, Chico; M.A., California Polytechnic State University, San Luis Obispo

Michael Black ...........................Managing Director, PCPA / Director, Auxiliary Accounting Services
B.S., M.S., California State University, Sacramento

Daphne Boatright ......................Director, Registered Nursing
B.S.N., California State College, Bakersfield; M.Ed., California Polytechnic State University, San Luis Obispo

Mark Boohrer...............Artistic Director/Associate Dean, PCPA
B.A., California State University, Sacramento; M.F.A., University of California, Irvine

Tammy Brannon .............................Biology
B.A., University of California, Santa Barbara; M.S., California Polytechnic State University, San Luis Obispo

William Bruce ..........Director, Extended Opportunity Programs & Services and Special Outreach
A.A., A.S., Allan Hancock College; B.S., M.A., California Polytechnic State University, San Luis Obispo

Robert Bryant .............................Business
A.A., Allan Hancock College; B.S., M.A., California Polytechnic State University, San Luis Obispo

Alice Caddell .........................Early Childhood Studies
A.A., Cuesta College; B.A., M.A., Pacific Oaks College & Children’s School

Denize Cain ..........................................................English
B.A., M.A., University of California, Santa Barbara

Rinaldo Caminada ...........................................Physical Education
A.A., Chabot College; B.A., Chico State University; M.A., Oregon State University

Richard Carmody .....................Director, Business Services
A.S., Allan Hancock College; B.S., University of La Verne; M.B.A., University of Phoenix

Noé Chavez-Magana .......................Spanish
B.A., Claremont Men's College; M.A., Ph.D., University of California, Irvine

Eui Chung ..................................................Mathematics
B.A., M.A., California State University, Fullerton

Marie Comstock .......................Professor, Business
B.A., University of California, Los Angeles; M.A., California State University, Long Beach; M.B.A., California Lutheran University; D.P.A., University of LaVerne

Anne Cremarosa ......................Dean, Academic Affairs
B.S., California Polytechnic State University, San Luis Obispo; M.A., Regis University; D.B.A., Argosy University

Dominic DalBello ..................Associate Professor, Engineering
B.S., M.S., University of California, Santa Barbara

Judith DalPorto .......................Campus Children’s Center
A.A., Allan Hancock College; B.A., Chico State University

David DeGroot ...............................Articulation Officer
B.A., University of California, Santa Barbara; M.A., St. Mary’s College

Roger DeLaurier ...................Conservatory Director-Actor Training
B.A., College of Santa Fe; M.A., Southern Methodist University

Karan Demchak .......................Campus Children’s Center
A.S., Santa Barbara City College; B.S., University of LaVerne

Michael Dempsey ...............Conservatory Director, PCPA
B.A., M.A., University of Wisconsin; M.F.A., University of Connecticut

Andrew Densmore ..........Coordinator/Instructor, Fire Academy
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Jody Derry .............................Assistant Professor, Business
B.A., California State University, Fresno; M.B.A., California Polytechnic State University, Pomona

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B.A., California State University, Fresno; M.A., California Polytechnic State University, San Luis Obispo

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B.A., California Polytechnic State University, San Luis Obispo

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A.S.N., Cuesta College; A.S., Allan Hancock College; B.S.N., Holy Names University

Francisco Dorame .....................................Project Director, College Achievement Now
B.A., M.A., California State University

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Kristopher Dutra .....................Physical Education
B.S., Stockton College

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B.S., Stockton College

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B.S., University of Liberia; M.A., California State University, Hayward

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B.M., B.M.E., Heidelberg College; M.M., Cleveland Institute of Music; D.M.A., University of Illinois
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M.S. University of California, Santa Barbara

Kathleen Johnson .................................................. Dental Assisting
B.F.A., M.F.A., University of Oklahoma

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B.F.A., Pennsylvania State University; M.F.A., Hollins University

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M.A., University of LaVerne

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M.A., California State University, Sacramento
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M.A., California Polytechnic State University, San Luis Obispo
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Brian Stokes .......................................................... Anthropology
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Barbara; M.A., California State University, Northridge
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B.S., M.S., California State University, Hayward
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San Luis Obispo
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Suzanne Valery ......................................................... Director, Institutional Grants
B.A., Stonehill College; M.S., San Diego State University;
Ed.D., United States International University
Rex Van Den Berg .......................... Director, Plant Services
B.S., Black Hills State University; M.A., University of Nebraska
Thomas VanderMolen ................................................. Psychology
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M.S., California Polytechnic State University, San Luis Obispo
Carole Van Name .................................... Director, Information Technology Services
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M.B.A., University of California, Los Angeles
Michael Wagner ............................................. Computer Science
B.S., M.S., California Polytechnic State University, San Luis Obispo
Sandra Waiters-Derry .................. Nursing
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B.S.N., California State University, Dominguez Hills
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Margaret Warnick ............................................ Business
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B.S., American University; M.A., San Francisco State University;
M.S., University of California, Davis
Robert Weir ............................................ Coordinator/Instructor, Culinary Arts
A.A., A.S., City College of San Francisco
Deborah West ......................................................... Art
B.A., M.F.A., University of California, Davis
Elizabeth West ......................................................... Mathematics
B.S., University of California, Santa Barbara;
M.S., University of Vermont
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B.S., M.S., University of California, Santa Barbara
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B.S., California State University, Hayward;
M.S., California Polytechnic State University, San Luis Obispo
Steve Yamauchi .................................. Coordinator/Instructor, Law Enforcement Academy
B.A., California State University, Chico
Mina Yavari .................................................. Assistant Professor, Mathematics
B.S., Fachhochschule Giessen, Germany;
M.S., University of North Florida

Every effort has been made to assure the accuracy of this list. Should you believe there is an omission or error in this listing, please contact the office of the vice president, student services at 922-6966 ext. 3267.
ADMINISTRATION AND FACULTY

David Edwards (1975 - 2007) Director, Plant Services
Edwin Edwards (1975 - 1989) Special Education
Edgar Eimon (1954 - 1977) Counseling
Nancy Fitch (1972 - 1989) Philosophy/Sociology
John P. Forsmark (1968 - 1995) Business
Ann E. Foxworthy (1992 - 2005) Superintendant/President
Judith Frost (2001 - 2006) Managing Director, PCPA
Diane Glaser (1994 - 2011) Coordinator, Student Services
Terrence Got (1981 - 2002) Director, Computer Services
Nette T. Graham (1967 - 1980) Coordinator of Vocational Nursing
Agnes Grogman (1965 - 1988) Dean, Liberal Arts & Sciences
Frank Grossbeyne (2001 - 2006) Vice President, Student Services
Jacqueline Groshart (2000 - 2005) Special Services Counselor
Joann Hanneford (1975 - 2002) Anthropology
Mary Harvey (1999 - 2006) Counseling
Edda M. Hayes (1990 - 2008) Family/Consumer Science
Fidel M. Herrera (1976 - 1999) Language Arts
Ruth Higgins (1957 - 1962) Dean of Women, English
Ray Hobson (1975 - 2008) Dean, Academic Affairs
Barbara J. Horner (1983 - 1995) Director, Vocational Nursing
Orville Howells (1971 - 1985) Counseling
Robert A. Isaacson (1978 - 2010) Professor, English
Kristi Jenkins (1997 - 2004) Coordinator/Instructor Medical Assisting
Howard Jones (1963 - 1994) English
Candidia Katch (1979 - 2011) Family & Consumer Sciences
Shirley Kellbach (1977 - 1985) Handicapped Services
Shirley Kellyhome (1971 - 1987) Vocational Nursing
Roy Wayne King (1973 - 2009) Physical Education
G. Anne Kollath (1975 - 2005) Psychology
Steven A. Lewis (1974 - 2008) Photography
Ruth Lofsted (2005 - 2009) Director, Bookstore Services
Frank E. Maltagliati (1977 - 2004) Physical Education
Judith W. Markline (1975 - 2004) Dean, Educational Services
Robert Masaoka (1971 - 2008) Political Science
John Mathison (1975 - 1994) Coordinator, Cooperative Education
Linda D. Maxwell (1971 - 2006) Professor, Dance
Robert W. McCutcheon (1966 - 1986) Physical Education
Michael McMahon (1981 - 2011) ESL
John Miles (1960 - 2004) English
Lola Moe (1983 - 1996) Parent Child Study Center
Glenn A. Montague (1965 - 1993) Music
John W. Osborne (1965 - 1999) Director of Athletics, Physical Education
Mardi Osborne (1989 - 2009) Physical Education
Martha J. Osborne (1974 - 1993) Associate Dean, Matriculation & Counseling
Chauncey A. Peterson (1963 - 1992) Speech
Dorothy L. Phillips (1999 - 2004) Associate Dean, Health Occupations
Janet Pieper (1999 - 2005) Director, Human Resources/EOO
Leonard Porterfield (1940 - 1975) Psychology
Edna Pyle (1963 - 1973) Home Economics
Mary Lou Rabska (1956 - 1983) Sociology
Howard S. Ramsden (1972 - 2004) Dean, Academic Affairs
Robert Rauch (1968 - 1983) Electronics
Betty M. Reddekopp (1975 - 1999) Dental Assisting
John Reese (1989 - 2010) Electronics
Elizabeth Regan (1980 - 2010) Professor, Early Childhood Studies
Kathryn A. Rich (1985 - 2004) Campus Children's Center
Reinette C. Roberts (1968 - 1970) Sociology, Psychology
Charles P. Rorabaugh (1985 - 2011) Learning Assistance Counselor
Thomas Sadowski (1998 - 2011) Reading
Margaret Segura (1977 - 2003) Director, EOPS & Special Outreach
Kathryn Sherwood (1976 - 1999) Coordinator, Campus Children's Center
Shirley Shirrells (1973 - 2002) Counselor/Coordinator
Margaret Sjovold (1971 - 2004) Counseling
Edward J. Smithburg (1971 - 1975) Coordinator, Cooperative Education
Eugene Stevens (1969 - 1989) Director, Community Education
John Sutherland (1965 - 1979) Engineering & Mathematics
Donald E. Tilly (1981 - 2009) Early Childhood Studies
Mary Lou Twitchell (1990 - 2011) Physical Education/Community Programs
Charles Varni (1978 - 2004) Professor, Sociology
Phil Wahl (1949 - 1989) Electronics
Roger Welt (1992 - 2009) Vice President, Student Services
James West (1989 - 2006) Dean, Counseling & Matriculation
Robert White (1985 - 2011) Mathematics/Physical Education
Roy Willey (1966 - 1994) Business
Donald Wilson (1963 - 1985) Dean of Continuing Education
Charles D. Wittmer (1988 - 2008) Professor, Psychology
Christopher Zarate (1975 - 2009) Counseling
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<td>Apr 13 Application Opens for 2011-2012 Academic Year</td>
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<tr>
<td>T-Sa</td>
<td>Apr 26–30 Priority Online Registration</td>
</tr>
<tr>
<td>Daily</td>
<td>May 1–Jun 17 Online Registration</td>
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<tr>
<td>Su</td>
<td>May 1 Community Education Online Registration begins</td>
</tr>
<tr>
<td>Daily</td>
<td>May 28–Jun 17 College Now! online registration</td>
</tr>
<tr>
<td>M</td>
<td>Jun 13 Classes begin - 6 week, 8 week</td>
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<tr>
<td>F</td>
<td>Jun 17 Last day to add 6 &amp; 8—week classes</td>
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<tr>
<td>W</td>
<td>Jun 22 Last day to drop without W, 6-week classes</td>
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<tr>
<td>W</td>
<td>Jun 22 Last day to select PASS/NO PASS option, 6-week classes</td>
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<tr>
<td>M</td>
<td>Jun 27 Last day to drop without W, 8-week classes</td>
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<tr>
<td>M</td>
<td>Jun 27 Last day to select PASS/NO PASS option, 8-week classes</td>
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<tr>
<td>M</td>
<td>Jul 4 Independence Day - College Closed</td>
</tr>
<tr>
<td>M</td>
<td>Jul 12 Last day to drop 6-week classes</td>
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<tr>
<td>TH</td>
<td>Jul 14 Last day to file petitions for summer diploma or certificate</td>
</tr>
<tr>
<td>W</td>
<td>Jul 20 Classes end — 6 week</td>
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<tr>
<td>TH</td>
<td>Jul 21 Final Exams — 6 week</td>
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<tr>
<td>TH</td>
<td>Jul 21 Last day to drop 8-week classes</td>
</tr>
<tr>
<td>W</td>
<td>Aug 3 Classes end — 8 week</td>
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<tr>
<td>Th</td>
<td>Aug 4 Final Exams — 8 week</td>
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<td>Aug 11 Summer session grades are due online</td>
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<tr>
<td>T-Sa</td>
<td>Jun 21-25 Priority online registration</td>
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<tr>
<td>F</td>
<td>Jun 24 First day to file petitions for a fall 2011 degree or certificate</td>
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<tr>
<td>Daily</td>
<td>Jun 26-Aug 26 Open online registration</td>
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<tr>
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<td>Jun 26 Community Education online registration begins</td>
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<tr>
<td>Daily</td>
<td>Aug 8-26 College Now! online registration</td>
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<td>Aug 18 Staff Development Day</td>
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<td>F</td>
<td>Aug 19 All Staff Day</td>
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<tr>
<td>M</td>
<td>Aug 22 Credit day, evening, Term 1 and Community Education classes begin</td>
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<tr>
<td>F</td>
<td>Aug 26 Last day to add semester length and Term 1 classes</td>
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<tr>
<td>M</td>
<td>Sept 5 Labor Day - College Closed</td>
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<tr>
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<td>Sept 7 Last day to drop without W, Term 1 classes</td>
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<tr>
<td>W</td>
<td>Sept 7 Last day to select PASS/NO PASS option, Term 1 classes</td>
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<tr>
<td>W</td>
<td>Sept 21 Last day to drop without W, semester-length classes</td>
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<tr>
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<td>Sept 21 Last day to select PASS/NO PASS option, semester length classes</td>
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<tr>
<td>F</td>
<td>Sept 30 Last day to withdraw – Term 1 eight-week classes</td>
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<td>Sept 30 Last day for dismissed student to file an application for reinstatement for Term 2 classes</td>
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<tr>
<td>W</td>
<td>Oct 12 Term 1 classes end</td>
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<tr>
<td>Th, F</td>
<td>Oct 13, 14 Final Exams - Term 1</td>
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<tr>
<td>M</td>
<td>Oct 17 Term 2 classes begin</td>
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<tr>
<td>M</td>
<td>Oct 31 Last day to drop without W, Term 2 classes</td>
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<td>Oct 31 Last day to select PASS/NO PASS option, Term 2 classes</td>
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<td>Nov 4 Last day to file petitions for a fall 2011 degree or certificate</td>
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<td>Nov 7 Last day to withdraw, Semester length classes</td>
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<td>Dec 7 Term 2 Classes end, Community Education Classes end</td>
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<td>Jan 20 All Staff Day</td>
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<tr>
<td>M</td>
<td>Jan 23 Credit day, evening, and Term 3 classes begin</td>
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<tr>
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<td>Jan 23 Community Education classes begin</td>
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<td>Mar 14 Term 3 classes end</td>
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<td>Th, F</td>
<td>Mar 15, 16 Final Exams - Term 3</td>
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<td>Mar 19 Term 4 classes begin</td>
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<td>Apr 2-7 Spring Recess – No Credit Classes</td>
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<tr>
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<td>May 16 Last day of instruction &amp; Term 4 classes end</td>
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