Allan Hancock College fine arts faculty member, Kristopher Doe, was raised in the artistic and architecturally rich city of Pasadena in southern California's San Gabriel Valley. Influenced by the early California plein-air painters who inhabited Pasadena at the dawn of the 20th century, he was surrounded by their work as well as many historic architectural examples from the era he affectionately calls “the age of elegance.” “I grew up seeing the paintings of Alson Clark, Edgar Payne and Franz Bischoff and the way in which they captured the radiant light of southern California. They always filled me with the warmth of a time gone by and serve as a tremendous inspiration in my painting pursuits.”

A graduate of Pasadena’s Art Center College of Design, Mr. Doe brings more than 20 years of experience as an illustrator, painter and fine arts instructor to the Allan Hancock College fine arts department, where he’s taught drawing, design and art appreciation courses since 2007.

Cover: “Golden Moment” by Kristopher Doe

The photographs depicted on the inside divider pages of this catalog were taken by students in Allan Hancock College basic photography and photojournalism courses. Their assignment was to photograph and describe something important to them about their college. This “day in the life” approach garnered responses as varied as classroom instruction to a friendly game of chess. In total, they provide a snapshot in time about the student experience at Allan Hancock College.
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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Managing Director, PCPA ..................................... Michael Black

ACADEMIC DEPARTMENTS

APPLIED SOCIAL SCIENCES
Dean – Ardis Neilsen
Department Chair – Al Avila
Administration of Justice  •  Culinary Arts
Early Childhood Studies  •  Education
Family & Consumer Sciences
Human Services

BUSINESS
Dean - Anne Cremarosa
Department Chair - Marie Comstock
Accounting  •  Business
Computer Business Information Systems
Computer Business Office Technology
Cooperative Education  •  Real Estate

COUNSELING
Dean – Charles E. Osiris
Department Chair –
  Yvonne Teniente-Cuello
Leadership  •  Personal Development

ENGLISH
Dean – Ardis Neilsen
Chair – Kate Adams
English  •  Reading

EXTENDED CAMPUS
Dean – Rick Rantz
Apprenticeship Training  •  Cosmetology
Economic Development

FINE ARTS
Dean – Roanna Bennie
Artistic Director/Associate Dean,
PCPA – Mark Booher
Department Chair –
  Marcus Engelsmann
Art  •  Dance  •  Drama  •  Film
Graphics  •  Music  •  Photography
Multimedia Arts & Communication

HEALTH, PHYSICAL EDUCATION
& ATHLETICS
Dean - Roanna Bennie
Associate Dean – Kim Ensing
Department Chair - Chris Stevens
Athletic Training  •  Health Education
Intercollegiate Athletics
Physical Education  •  Recreation

HEALTH SCIENCES
Dean – Paul Murphy
Department Chair – Julie Kuras
Dental Assisting  •  Medical Assisting
Nursing

INDUSTRIAL TECHNOLOGY
Dean - Anne Cremarosa
Department Chair - Raywell Snowden
Architecture  •  Auto Body Technology
Automotive Technology
Electronics/Computer Electronics
Engineering Technology
Machine Technology
Space Operations
Welding Technology

LANGUAGES AND COMMUNICATION
Dean – Roanna Bennie
Department Chair –
  Ethelwynne Reeves
American Sign Language
English as a Second Language
Foreign Languages (Spanish, French, Italian)
Interdisciplinary Studies
Speech Communication

LIFE & PHYSICAL SCIENCES
Dean - Paul Murphy
Department Chair - Linda Metaxas
Agribusiness  •  Astronomy
Biology  •  Chemistry
Environmental Studies
Geographic Information Systems
Geology  •  Physical Science
Physics

MATHEMATICAL SCIENCES
Dean - Paul Murphy
Department Chair – Robert White
Computer Science  •  Engineering
Mathematics

PUBLIC SAFETY
Dean – Anne Cremarosa
Department Chair – David Senior
Emergency Medical Services
Environmental Technology
Fire Technology/Academy
Law Enforcement Academy
Wildland Fire Technology

SOCIAL & BEHAVIORAL SCIENCES
Dean – Ardis Neilsen
Department Chair - Gary Bierly
Anthropology  •  Economics
Geography  •  History  •  Humanities
International Studies  •  Philosophy
Political Science  •  Psychology
Sociology
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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Our cozy Library is brimming with books that offer me knowledge and entertainment.

Katie O’Neill
Major: Geology and Photography
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 member who owned the land and facilities of the airfield. In 1958, the voters approved a bond issue to purchase the airport 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.

On July 1, 1963, the Allan Hancock Joint Community College District was formed by annexing the areas served by the Santa Ynez Valley High School District and the Lompoc Unified School District. This move expanded the district to 3,000 square miles, including the Channel Islands.

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 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 the physically disabled and students with learning disabilities. The Humanities Complex at the south end of the campus was completed in 1989.

In 1974, property and buildings located three blocks from 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 the physically disabled and students 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 four original campus buildings, was completed in 2007 to include a new, 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. The gallery is named for Superintendent/President Emeritus Ann Foxworthy, Ph.D., who retired in 2005.

A $180 million bond, Measure I, passed by voters in June 2006 is paving the way for additional new facilities and technology enhancements that will be completed over the next 10 years.

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 and classroom and office spaces, along with a professional culinary teaching kitchen. A two-story Science building opened for fall classes in August 2007, offering modern lab and classroom space for the life and physical sciences, mathematical sciences and health sciences departments.

Plans are under way for additional Measure I projects, including a Public Safety Training Complex, Student Services...
Center, childcare addition, Fine Arts building, industrial technology facility upgrade, athletic facility improvements and technology advancements.

Since the first classes taught at the Camp Cooke Army barracks in 1952, the college has offered extensive courses in the community, and the college 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.

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 mechatronics 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 and human services.

Liberal arts courses have continued their long-standing contributions through hundreds of courses and programs. In science, such courses 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.

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.

Students’ financial needs outside the classroom have been met by a growing number of support programs. Last year, more than $250,000 in scholarships was awarded through the Allan Hancock College Foundation. In 1974, the college opened its Financial Aid and Job Placement offices. In addition, the Extended Opportunity Programs and Services (EOPS) office has helped students with “over and above” support services since the 1970s.

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.

Drama has formed a strong part of the college’s relationship with the community. From its beginning in a converted badminton court in 1964, the Pacific Conservatory of the Performing Arts (PCPA) has offered more than 500 plays and musicals, maintained artists in residence and trained approximately 3,000 actors and technicians. Many PCPA alumni have found employment in professional theater and the entertainment industry. PCPA has also presented plays in Solvang since 1971, leading to the founding of the Solvang Theaterfest in 1981.

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 the 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 students, 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 Report from the Western Association of Schools and Colleges is available for review at the Learning Resources Center. In addition, the licensing or other approval by a state agency for various programs which require state approval are available at the Learning Resources Center. Students should inquire at the information desk.

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? After a yearlong dialog in 2006-07, the faculty, staff and students of AHC identified seven Institutional Learning Outcomes (ILOs).

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
   - 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
   - Apply a variety of critical and creative strategies for solving complex problems.
   - Generate and explore questions and arrive at reasoned conclusions.
   - Synthesize ideas and information from various sources and media.
   - Evaluate the credibility and significance of sources and material used as support or evidence.
   - Identify assumptions, discern bias and analyze reasoning and methods.
3. GLOBAL AWARENESS & CULTURAL COMPETENCE
   • Develop an awareness of one's own cultural framework and how it informs one's perspectives and experiences.
   • Recognize the interdependence of societies that participate in or depend on world economies, political systems and the planet's finite and fragile resources.
   • Act with sensitivity, respect and integrity in interactions with individuals and peoples of diverse perspectives, beliefs and values.
   • Develop an awareness of the importance of civic and community participation.

4. INFORMATION AND TECHNOLOGY LITERACY
   • Use a computer to perform basic functions appropriate to the classroom and workplace.
   • Select and use technology appropriate for the task.
   • Determine the nature and extent of information needed.
   • Locate, access, manage and evaluate information from multiple sources.
   • Use information ethically and legally.
   • Develop the ability to understand the applications and implications of technology in society.

5. QUANTITATIVE LITERACY
   • Perform calculations accurately.
   • Interpret mathematical models such as formulas, graphs and tables.
   • Apply mathematical concepts to solve problems.
   • Create and analyze mathematical models of real-world situations.

6. SCIENTIFIC LITERACY
   • 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
   • 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.”
We are all running together to reach a common goal—a bright, exciting future.

Caitlyn Grasso
Major: Photography
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:
   a. Primary Determinants
      i. 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;
      ii. possessing California motor vehicle license plates and registration;
      iii. possessing a valid California driver's license or a Department of Motor Vehicles ID card;
      iv. registering to vote and voting in California.
   b. Supplemental Determinants
      i. showing California as a home address on federal tax forms;
      ii. being a petitioner for divorce in California;
      iii. obtaining license from California for professional practice;
      iv. establishing and maintaining active California bank accounts;
      v. owning residential property;
      vi. holding active membership in service or social clubs;
      vii. having spouse, children or other close relatives reside in California.

3. Not be involved in conduct inconsistent with a claim of California residency. Some examples of inconsistent conduct which nullify intent are:
   a. maintaining voter registration in another state;
   b. being a petitioner for divorce in another state;
   c. attending an out-of-state institution as a resident of that state;
   d. declaring nonresidency for state income tax purposes;
   e. 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
   f. 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 legal status and 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 legal status 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 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-length 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 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, granting appropriate credit, shortening 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). Applications for admission are available at the Santa Maria campus Office of Admissions and Records and the Lompoc Valley, Vandenberg AFB, and Solvang centers. Applications may be completed and submitted online through the AHC website at www.hancockcollege.edu.

Once submitted, the admissions 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. 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 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/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, 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, associate of science, 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, 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, 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
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 6 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 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. According to 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.TOELF.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, class schedules containing complete information about classes offered and registration procedures are available online at [www.hancockcollege.edu](http://www.hancockcollege.edu). Click “class search” on the homepage to view the most current class schedule. Printed class schedules are also made available at all college locations and select community locations free of charge, while supplies last.

Some short-term classes offered after the start of a semester or term may not appear in the schedule of classes. Information concerning such classes will be publicized separately.

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

Class schedules are available online at [www.hancockcollege.edu](http://www.hancockcollege.edu). Click “class search” on the homepage to view the most current class schedule. Printed class schedules are also made available at all college locations and select community locations 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 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 Corrections Institute (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 or Vandenberg AFB centers. In addition to the privileges listed above, students may use the photo ID card to purchase tickets at a discount 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. There is a $2 replacement fee for a lost non-photo ID card.

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 will provide 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 indicating in writing on the Worksheet for Fees form at the time of enrollment.
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 Friday, and 8 a.m. to 4 p.m. on Saturday, when classes are in session. Parking fees will be collected and vehicles registered at the time of 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
- Additional vehicles $5
- 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.

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 734-3500.

For further information about traffic and parking regulations, students should refer to the Allan Hancock College Parking and Traffic Regulations manual or contact the police department at the Santa Maria campus or at the Lompoc Valley Center.

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 during the first two weeks of instruction for semester-length classes and during the first week of instruction for eight-week classes. For classes two to seven weeks in length, students must drop within four calendar days from the first class session. 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 courses, there are two options for obtaining a refund of fees paid for the course:

1. **Apply for the refund** 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 but must be submitted by the last day of instruction for the semester in which the refund is due. 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 drop by U.S. mail if he/she does so by the established deadline. The Drop Card Form is available for download at the AHC website [www.hancockcollege.edu](http://www.hancockcollege.edu) (click Admissions & Records).

2. **Wait for the college to issue the refund.** AHC will make every effort to process the refund request before the end of the current semester. All college-initiated refunds for canceled classes will be mailed to the student as a check.

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 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 a district cashier proof of withdrawal, a refund request form, the parking fee receipt and the parking permit.

Petition for exceptions to the established refund procedures must be submitted to the vice president, student services.
Between the busy class schedules and numerous study groups, it’s comforting to know that coffee is close by to keep us going.

Jessica Worthington
Major: Liberal Arts
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 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 and Vandenberg AFB centers.

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 will 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 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 Priority Admission Transfer program. 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

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

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 screening; 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, 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 for 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
3. meet prescribed low-income standards.

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 (F.S.E.O.G.)

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 force, incurred in the performance 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.

**FINANCIAL AID ACADEMIC PROGRESS STANDARDS**

**NOTE:** These standards are being revised for 2010-2011. 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 towards an educational goal. Progress will be evaluated at the end of the summer, fall and spring semesters by the standards listed below. All periods of enrollment will be evaluated regardless of whether or not financial aid was received.

1. **Grade Point Average (GPA)**

   Students must maintain a minimum 2.00 GPA. Courses completed with grades of A, B, C, D or P will be considered acceptable for satisfactory academic progress. Courses completed with F, I, NP, W or RD will not be considered acceptable for satisfactory academic progress. Students who receive all W or NP notations will be considered to have a 0.00 GPA for that semester. Even though a D is considered a passing grade, the total GPA must not fall below 2.00 for each semester. P grades will be assigned the equivalent value of a 2.00 GPA.

   Transfer students who are first-time applicants at Allan Hancock College must have an entering minimum cumulative 2.00 GPA.

   Students enrolled at Allan Hancock College for more than two years (60 units attempted) must have a minimum cumulative GPA of 2.00 at the end of the second year to continue eligibility for financial aid.

   a. **Probation For Not Meeting GPA Standard**

      Students who do not meet the GPA standard will be placed on probation for one semester and will be notified in writing. Financial aid funding will be continued during the probationary semester. If the GPA standard is not met again while on probation, financial aid will be canceled. A student may remove probation status by completing a minimum of six units with a 2.00 GPA. The student must submit a copy of his or her grades showing courses completed along with a written request to the Financial Aid office.

   b. **Reinstatement**

      Students who are canceled for not meeting the semester GPA minimum standard of 2.00 will be eligible for reinstatement when at least six units, with a GPA of 2.00 or better, have been completed without financial aid. To be reinstated, the student must submit a copy of his or her grades showing courses completed along with a written request to the Financial Aid office. Only one reinstatement will be permitted.

   c. **Appeals**

      Appeals may be filed for not meeting the GPA standard based on the following:

      - Medical problems
      - Family emergency
      - Other extenuating circumstances

      An appeal petition may be obtained from the Financial Aid office. The student is responsible for presenting sufficient information and documentation to substantiate the existence of mitigating circumstances. The Financial Aid Appeals Committee will review the appeal. Written notification will be mailed once a decision is reached. The appeals committee is the final decision authority in the appeals process.

2. **Progress Towards Educational Objective (Duration)**

   Students are expected to complete a financial aid educational objective [certificate, degree and/or transfer requirements(s)] within 150 percent of the number of units specified on the initial Student Education Plan (SEP).
For example, if the SEP indicates that at least 60 units need to be completed, 90 units may be attempted. A student's allotted sessions will be based on full-time enrollment but can be pro-rated to accommodate students who attend half-time or three-quarter time. All units from Allan Hancock College and previously attended colleges will apply toward duration regardless of whether or not financial aid was received.

Students are required to complete a minimum cumulative number of units per academic year based upon enrollment status. The number of units attempted each semester determines enrollment status as follows: 12 or more units is full time, 9 to 11.5 units is three-quarter time, 6 to 8.5 units is half time, and .5 to 5.5 units is less than half time. The academic year starts with summer followed by the fall and spring semesters.

<table>
<thead>
<tr>
<th>Enrolment Status</th>
<th>1 yr.</th>
<th>2 yr.</th>
<th>3 yr.</th>
<th>4 yr.</th>
<th>5 yr.</th>
<th>6 yr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>20 units</td>
<td>40 units</td>
<td>60 units</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three-quarter-time</td>
<td>15 units</td>
<td>30 units</td>
<td>45 units</td>
<td>60 units</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Half-time</td>
<td>10 units</td>
<td>20 units</td>
<td>30 units</td>
<td>40 units</td>
<td>50 units</td>
<td>60 units</td>
</tr>
</tbody>
</table>

Less than half-time students must complete more than 75 percent of units attempted.

a. Probation For Not Meeting Cumulative Units Standards

Students not meeting these standards will be placed on cumulative unit probation for one academic year and will be notified in writing. Financial aid funding will be continued during the probationary period. Financial aid will be canceled if the progress standard is again not met. Students who are on probation due to not meeting the cumulative minimum unit requirement will only receive one probation at Allan Hancock College.

b. Reinstatement

A student may be reinstated when cumulative unit standards have been met. To be reinstated, the student must submit a copy of all grades showing courses completed along with a written request to the Financial Aid office.

c. Appeal

An appeal may be filed for not meeting cumulative unit standards based on the following:

- Medical problems
- Family emergency
- Other documented extenuating circumstances

An appeal petition may be obtained from the Financial Aid office. The student is responsible for presenting sufficient information and documentation to substantiate the existence of mitigating circumstances. The Financial Aid Appeals Committee will review the appeal. Written notification will be mailed once a decision is reached. The appeals committee is the final decision authority in the appeals process.

3. English as a Second Language (ESL)

These courses are eligible for funding if recommended by an Allan Hancock College counselor.

4. Remedial/Special Instruction Courses

These courses must be recommended by an Allan Hancock College counselor. A maximum of 30 total units will be eligible for funding.

5. Course Repetition

Financial aid will pay for repeated courses that are approved according to the general college course repetition policy.

6. Nursing Students

Students who are completing prerequisites for admission to the LVN/RN program(s) will be given eligibility to complete these prerequisites along with general education requirements. Upon acceptance into the LVN/RN program(s), students must submit a copy of their acceptance letter for re-evaluation.

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 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 opportunity 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, 922-6966 ext. 3216.
LOANS

Federal Robert Stafford Loan Program

NOTE: This loan program may be terminated in 2010-2011. Please check with the Financial Aid office.

The Federal Stafford 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 Stafford loan can be determined. The Stafford 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, cash grants, registration and the completion of the Free Application for Federal Student Aid (FAFSA) paperwork. Eligible students may receive extra hours of tutoring, limited textbook loans and peer advising sessions, 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 by contacting 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.

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 A, 922-6966 ext. 3214 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, resume 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

The Allan Hancock College Career and Technical Education Center (CTEC), formerly known as Job Placement Career Services, is committed to serving our diverse student population by providing information about job opportunities and by maintaining resources to help students make sound career decisions. The CTEC offers employment services, workplace skills testing/validation, industry certification exams, an array of career exploration resources, academic counseling for CTE students and cooperative work experience. Students are assisted with developing effective résumés, pre-employment testing and preparing for the interview. A detailed listing of part-time and full-time positions is available via the CTEC on-line job board. Students can expand their self-knowledge through the use of career assessments and by researching current occupational information.

The CTEC is an official ACT (American College Testing Service) site, offering occupational and professional certification tests. Additionally, job seekers are able to obtain work readiness certification through the WorkKeys® job skill assessment testing system within the center as well as various work related skills certifications. Students can earn college credit while working by enrolling in Cooperative Work Experience; interested students should contact the CTEC for course/program specifics. The CTEC staff is available for advising and referrals at the Santa Maria campus and the Lompoc Valley Center. For assistance in Santa Maria, call 922-6966 ext. 3374; in Lompoc call 735-3366 ext. 5374. 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 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
Santa Maria campus, call 922-6966 ext. 3652 (business hours, evenings or weekends); or ext. 3911 (emergency).

To contact the Lompoc Valley Center, call 922-6966 ext. 5652 (business hours, evenings or weekends); or ext. 5911 (emergency). The Allan Hancock College Police Department has entered into Memorandum of Agreements with both the Santa Maria Police Department and the Lompoc Police Department for coverage of the campuses after hours, weekends and holidays. These Memorandums of Agreement also provide additional police support for specialized and complex investigations, and additional staffing responses for large scale incidents.

Emergency call boxes at the Santa Maria Campus and Lompoc Valley Center are located in various parking lots with preset police buttons.

All criminal activity should be reported immediately to the Allan Hancock College Police Department so that an investigation can be initiated.

The Allan Hancock College Police Department uses the AlertU system to notify subscribers of emergency situations on campus. AlertU is an emergency mobile alerting system that sends a text message to the subscriber’s cell phone in cases of emergency. The Allan Hancock College Police Department encourages all students, faculty and staff to subscribe to the AlertU system by texting To: “253788,” Message: “AHC,” and reply “Y,” or sign up via the web at http://www.alertu.org/ahc.

Penal Code Section 290.01, effective October 28, 2002, requires persons classified as serious and high-risk sex offender registrants to register with the campus police each fall and spring semester. Questions should be directed to the Allan Hancock College Police Department, 922-6966 ext. 3652.

TRAFFIC REGULATIONS

The speed limit on the Santa Maria and Lompoc Valley Center campuses 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 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 Friday, and 8 a.m. to 4 p.m. on Saturday. Students may park in white-lined stalls only.

Permits may be purchased via the mail by completing a vehicle registration form and mailing it, along with payment and a self-addressed stamped envelope, to: Allan Hancock College, Attn: District Cashier, 800 S. College Dr., Santa Maria, CA 93454. Permits may also be purchased from the district cashiers, Student Services building A. Hours will be posted at the windows. At the Lompoc Valley Center, parking permits may be purchased at the administration office.

One-day permits may be purchased for $2 from one of the vending machines located near the parking lots on the Santa Maria campus and at the Lompoc Valley Center. Students may park in white-lined stalls only.

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

CAMPUS CHILDREN’S CENTER

Building Z on College Drive and Building J on the Santa Maria campus house the Children's Center and Family and Consumer Education, which provides quality care for infants and preschoolers between three months and five years of age. The centers serves as the lab school for Early Childhood Studies students who assist the credentialed staff in providing an enriched learning environment designed to foster social, emotional, physical and cognitive growth for young children. The Children's Center is open Monday - Friday, 7:45 a.m. to 4:45 p.m.

The philosophy of the program is to provide each child with the tools and the opportunity to be actively involved in the learning process, to experience a variety of developmentally appropriate activities and materials and to pursue his/her own interests. As an integral part of the Early Childhood Studies program, the center 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.

The Children’s Center is available to student parents enrolled in nine or more units during fall and spring semesters, six or more units during summer session and/or CalWORKs or Title 5 participants. Limited staff spaces are available. Applications from student parents taking less than the minimum units are accepted on a space-available basis. An orientation session is required prior to enrollment. For further information, contact the center director at 922-6966 ext. 3569 or stop by building J-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 and the Academic Resource Center (ARC). 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 L203, and Multimedia Services including the Teacher Learning Center. At the Lompoc Valley Center, the Jacoby Library houses Tutorial Services and the Open Access Computer Lab.

The library collections include more than 70,000 books, AV materials, journals and magazines. Online resources include the library catalog and electronic versions of books, journals, magazines and reference works. The libraries also have wireless and Internet access for research. Students may request materials from either library and have them delivered free to any campus center. For more information, call 922-6966, ext. 3224 for Santa Maria or ext. 5322 for Lompoc.

The Open Access Computer Lab (OACL) provides computer access to registered AHC students who present an 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 922-6966 ext. 3751.

The Tutorial Center in the ARC provides free peer tutoring for many of the academic and vocational courses offered by the college. Tutoring can be one-time only or ongoing through 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 tutors. Tutors are trained
through enrollment in a one-unit credit course, PD 120. They may also qualify to receive tutor certification from the College Reading and Learning Association. For more information, call 922-6966 ext. 3260.

In the Writing Center, students enrolled in an English or ESL course with a required lab component or in ENG 306 (the Writing Lab course) receive help with reading and writing. Writing Center faculty and staff offer one-to-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 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 a current, valid 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 Labs at both the Lompoc and 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 the online instructor.

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 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 V 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 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 922-6966 ext. 3274 or 735-3366 ext. 5274 (voice) or 928-7834 (TDY) or 866-327-6218 (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 I, or call 922-6966 ext. 3274.

**Reasonable Accommodations**

In compliance with state and federal requirements, it is the policy of the 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 programs, and individual testing, diagnosis, instruction and support services.
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 regular session days of receiving the student's petition. If additional days are needed, the superintendent/president may authorize an extension beyond the time limit of 15 days. 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
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 completed the IADT and 180 days of service in the reserves.

Initial applicants must provide county-recorded copies of all DD 214's 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.

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.

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 Commissioner on Athletics. Allan Hancock College Football competes among 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, tennis 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 15 of each year for the previous reporting year. Such information is available online at http://ope.ed.gov/athletics/

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, mentoring, career professional development and transfer advising. 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.

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.
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 and visits to colleges and universities. The Central Coast Cal-SOAP Consortium is composed of two community colleges and four university partners and provides services in five K-12 school districts and two community-based organizations. Contact 922-6966 ext. 3710 for further information.
Allan Hancock College provides a hands-on approach to education.

John Gellentien
Major: Undeclared
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 consciencia 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 compromeete 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 veterano de la guerra de Vietnam, estado civil, u orientación sexual.

Discrimination Complaint Procedure

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.

An employee, job applicant or student who feels he/she has been or is being subjected to 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;
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) regular session 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) regular session 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) regular session 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) regular session 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

**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 states (Section 76224) that the "...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 unfairly 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, student services, (who shall chair the committee), two faculty members (the president and vice president of the Academic Senate or their designees) 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.

Within two weeks, the superintendent/president will issue a written decision to the GRC, the dean, chair, faculty member and the student. 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 nova (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) session days of the student's request for a meeting. If the faculty member(s) does not meet with the student within ten (10) session 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) session 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) session 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) session days of receiving the student's written complaint, the student may go directly to Step 4.

Within ten (10) session 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) session 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) session 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.
Policies and Procedures

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) session 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) session 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) session 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 in 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 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, harmful, or contraband substances of any kind, including, but not limited to, chemical, physical, or biological toxins or other harmful or dangerous substances, drug paraphernalia or alcohol, or be under the influence of alcohol, drugs or medication (except as prescribed by a physician) 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, 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 from 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 in advance by the instructor. An individual shall not 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 justifying 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 copyright 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 with a 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 the 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 20 feet of any district building or leased facility and is permitted only in designated areas. The Facilities Advisory Committee 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, is 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 Administrative Code. Limited English language skills will not be a barrier to admissions to the college and to participation in its academic and vocational programs.

La limitación en la idioma inglés no será 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 a student enrolls in, a student should set aside two hours of study time 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 to speak to a counselor regarding unit load for each semester.

With approval from a counselor, students who have received a grade point average of 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 apprenticeship programs. These courses are limited to 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, 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 a statement, consistent with the departmental standard, concerning student absences in the course syllabus which is distributed to students. 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 student, that the student has been academically dishonest, if an instructor determines, after a conference with the office of the vice president, student services. An appeals process is available to the student through the services.

A student may also be subject to further disciplinary action through the vice president, able and appropriate. The student may also be subject to disciplinary action.

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 (at a time other than that regularly scheduled) to meet the student's own personal needs 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 courses, 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 the next page.

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.
## 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 ART 103+104</td>
<td>3, 6</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>
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<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>
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<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>
</tr>
<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)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Computer Science B</td>
<td>3,4,5</td>
<td>CS 121+122</td>
<td>3, 6</td>
<td>Category 4B w/ 4 or 5 score</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>3,4,5</td>
<td>ENVS 101</td>
<td>3</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>European History</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 or D6</td>
<td>3 sem units toward Area 3B or 4F</td>
</tr>
<tr>
<td>French Language</td>
<td>3,4,5</td>
<td>FRCH 102</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>
</tr>
<tr>
<td>French 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>German Language</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>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>
</tr>
<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 + US-2</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>
</tr>
<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>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>
</tr>
<tr>
<td>Spanish Literature</td>
<td>3,4,5</td>
<td>N/A</td>
<td>N/A</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>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>
</tr>
<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>
</tr>
<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>
</tr>
<tr>
<td>Studio Art: Drawing</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>
</tr>
<tr>
<td>United States History</td>
<td>3,4,5</td>
<td>HIST 118</td>
<td>3</td>
<td>Category 2B</td>
<td>3 sem units toward Area C2 or D6 + US-1</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+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>
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 on 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 on 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, contact the academic affairs, building S2.

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

Course Repetition
All Allen 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 fourth substandard grade, the course may be repeated again only with the approval of the dean, 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.

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.

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.

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 substandard (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.

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 as 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 High 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
- **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

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.

<table>
<thead>
<tr>
<th>Units</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 units of B x 3</td>
<td>12 grade points</td>
</tr>
<tr>
<td>2 units of A x 4</td>
<td>8 grade points</td>
</tr>
<tr>
<td>2 units of C x 2</td>
<td>4 grade points</td>
</tr>
<tr>
<td>3 units of D x 1</td>
<td>3 grade points</td>
</tr>
<tr>
<td>1 unit of F x 0</td>
<td>0 grade points</td>
</tr>
<tr>
<td>12 units</td>
<td>27 grade points</td>
</tr>
</tbody>
</table>

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 cumulative GPA is based on all units attempted and units earned in all Allan Hancock College 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 the catalog.

A student may elect the pass/no-pass option by completing the pass/no-pass option form and submitting it to the Admissions and Records office in Santa Maria or the administrative office at the Lompoc Valley, Vandenberg AFB, or Solvang centers 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.

**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 administrative office at the Lompoc Valley, Vandenberg AFB, or Solvang centers 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.

**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.

GRADES

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

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 has not completed at least 50 percent of the units attempted with a grade of A, B, C, D, F or P (pass). 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 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 by letter at the end of the semester 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 office 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 Office and on the Counseling website. The deadline for submitting a reinstatement application may be found in the schedule of classes.

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 of Admissions and Records written requests that identify 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; degree 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 obligated to provide 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 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 (graded) Course: 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 (ungraded) Course: 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 Policies and Procedures 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 fall and spring semesters. Enrollment in four units or more is considered "full-time" during the 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.
Science labs allow me to gain knowledge through active learning and teamwork.

Katie O’Neill
Major: Geology and Photography
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 the California State Universities, Universities of California and many of the California independent universities and colleges are available for student use in the University Transfer Center. The center also provides assistance in completing applications for admission to campuses of the University of California and the California State University, 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/or 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.

Priority Admission Transfer (P.A.T.)

Transfer can be a complicated process. The Priority Admission Transfer 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 Priority Admission Transfer program. 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

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

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 university, or to an accredited professional school requiring a minimum of three years of post-secondary education. Qualified students are eligible to receive the Transfer Recognition Award and to have their name annotated on the commencement program whether or not the student petitions to graduate. Information concerning specific requirements for this award may be obtained from the University Transfer Center.

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 ten 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 minimum 2.4 grade point average is required in all transferable coursework. Students who meet these minimum requirements
standards, while eligible for admission to a UC campus, may not be accepted to a major or department. In the case of impacted majors and/or campuses, other selection criteria are also used. Students who have questions regarding their eligibility should check with the Counseling office and/or 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 Intersegmental General Education Transfer Curriculum 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 campus 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 office 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 2010-2011 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*, 182, 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
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.

TRANSFER TO THE CALIFORNIA STATE UNIVERSITY

Bakersfield - California Maritime Academy - Channel Islands- Chico - Dominguez Hills - East Bay - Fresno - Fullerton - Humboldt - Long Beach - Los Angeles - Monterey Bay - Northridge - Pomona - Sacramento - San Bernardino - San Diego - San Marcos - San Jose - San Luis Obispo - San Francisco - Sonoma - Stanislaus

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 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 Annoucement 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 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 office 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 office 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 (C- is not acceptable) in each course.

The 2010-2011 approved California State University General Education pattern is shown below.

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

A1 Oral Communication [3]
SPCH 101, 102, 106

A2 Written Communication [3]
ENGL 101

A3 Critical Thinking [3]
ENGL 103
PHIL 112, 114
SPCH 106

**Area B Scientific Inquiry and Quantitative Reasoning [9] (1 lab)**

B1 Physical Science (1)
ASTR 100
CHEM 110, 120, 150, 151
ENVS 102
GEOG 101
GEOL 100, 114, 131, 141
PHSC 111, 112
PHYS 100, 110, 141, 142, 161, 162, 163

B2 Life Science (1)
ANTH 101
BIOL 100, 120, 124, 125, 128, 132, 135, 150, 154, 155
ENVS 101

B3 Laboratory Activity
ANTH 110 or one of the courses in category B1 or B2 must be with a lab

**Area C Arts, Arts and Humanities [9] (at least one course in Arts and Humanities)**

C1 Arts [3]
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, 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
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

B4 Mathematics/Quantitative Reasoning {1}
MATH 100, 105, 121, 123, 131, 135, 141, 181, 182, 183, 184
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
- HUSC 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 3,100 full-time students and another 7,500 part-time students. Approximately 1,300 graduate annually with associate of arts degrees, associate of 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 2004, 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 2004 to spring 2007. 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.

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 Hancock 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 THE ASSOCIATE IN ARTS AND ASSOCIATE IN SCIENCE DEGREES

Allan Hancock College offers two types of associate degrees. The associate in arts 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 degree is designed for the occupationally-oriented student. It provides training within specific occupational areas.

The associate degree requires the completion of all graduation requirements listed in this catalog and fulfillment of the specified major requirements. Students planning to transfer to a four-year institution should refer to “Transfer Information” in this catalog.

All students who have satisfied the graduation requirements listed below are encouraged to petition for the appropriate associate degree even though they may be planning to transfer to a four-year institution. Students planning to transfer to the California State University or the University of California systems should see the General Education requirements listed under “Transfer to the California State University” or “Transfer to the University of California” in this catalog before selecting courses to meet the associate degree requirements.

The associate in arts or associate in science 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 UNITS IN PHYSICAL EDUCATION, HEALTH EDUCATION, OR FIRST AID SAFETY** have been completed, selected from the following courses:
   - Administration of Justice 320
   - Dance (any activity course)
   - Emergency Medical Services 102, 301
   - Family Consumer Science 109
   - Food Science and Nutrition 109
   - Fire Technology 307
   - Health Education 100
   - Human Services 126
   - Nursing 318 or 328 or 338
   - Physical Education (any activity course)

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 one of the following standards:
   - 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.
   - Receive a math placement recommendation for any 100-level math course based on the current Allan Hancock START process.

7. **A MINIMUM OF THREE UNITS IN MULTI-CULTURAL/GENDER STUDIES** have been completed.

   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
   - History 101, 102, 103, 120
   - Human Services 107, 113
   - Humanities 101, 102, 103
   - International Studies 141
   - 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 or AS degree major. See the AA/AS 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. 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.

<table>
<thead>
<tr>
<th>CATEGORY 1, NATURAL SCIENCES (3 units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students completing courses in this category will:</td>
</tr>
<tr>
<td>• understand and build upon complex issues and discover the connections and correlations among ideas to advance toward a valid independent conclusion.</td>
</tr>
<tr>
<td>• identify and analyze real or potential problems and develop, evaluate, and test possible solutions and hypotheses using the scientific method where appropriate.</td>
</tr>
<tr>
<td>• formulate ideas and concepts in addition to using those of others.</td>
</tr>
<tr>
<td>• use college-level mathematical concepts and methods, where appropriate, to understand, analyze, and explain issues in quantitative terms.</td>
</tr>
<tr>
<td>• apply their knowledge and skills to new and varied situations.</td>
</tr>
<tr>
<td>Anthropology 101, 110 (when taken in conjunction with 101)</td>
</tr>
<tr>
<td>Astronomy 100</td>
</tr>
<tr>
<td>Biology 100, 120, 124, 132, 135</td>
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<tr>
<td>Chemistry 110, 120</td>
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<tr>
<td>Electronics 100</td>
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<tr>
<td>Environmental Studies 101, 102</td>
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<tr>
<td>Food Science and Nutrition 110</td>
</tr>
<tr>
<td>Geography 101</td>
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<tr>
<td>Geology 100, 114, 131, 141</td>
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<tr>
<td>Medical Assisting 301</td>
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<tr>
<td>Physical Science 111, 112</td>
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<tr>
<td>Physics 100</td>
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<thead>
<tr>
<th>CATEGORY 2, HUMAN INSTITUTIONS (6 units)</th>
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<tr>
<td>A. Social Science (3 units)</td>
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<tr>
<td>Students completing courses in this category will:</td>
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<tr>
<td>• understand and build upon complex issues and discover the connections and correlations among ideas to advance toward a valid independent conclusion.</td>
</tr>
<tr>
<td>• identify and analyze real or potential problems and develop, evaluate, and test possible solutions and hypotheses using the scientific method where appropriate.</td>
</tr>
<tr>
<td>• find and evaluate information by selection and using appropriate research methods and tools.</td>
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<tr>
<td>• develop individual responsibility, personal integrity, and respect for diverse people and culture.</td>
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<tr>
<td>• understand ethical issues that will enhance their capacity for making sound judgments and decisions.</td>
</tr>
<tr>
<td>Administration of Justice 101</td>
</tr>
<tr>
<td>Anthropology 102, 103, 105</td>
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<tr>
<td>Business 121, 141</td>
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<tr>
<td>Economics 101, 102, 121, 141</td>
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<tr>
<td>English 105</td>
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<tr>
<td>Geography 102, 103</td>
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<tr>
<td>International Studies 141</td>
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<tr>
<td>Political Science 101, 104</td>
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<tr>
<td>Psychology 101</td>
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<tr>
<td>Sociology 101, 102, 120, 122, 155, 160</td>
</tr>
<tr>
<td>Speech 110</td>
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<table>
<thead>
<tr>
<th>B. American History or Government (3 units)</th>
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<tbody>
<tr>
<td>In addition to those listed in Category 2A students completing courses in this category will also:</td>
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<tr>
<td>• take personal responsibility for being informed, ethical and active citizens of their community, their nation, and their world.</td>
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<tr>
<td>History 107, 108, 118, 119</td>
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<tr>
<td>Political Science 101, 103</td>
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<thead>
<tr>
<th>CATEGORY 3, HUMANITIES (3 units)</th>
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<tbody>
<tr>
<td>Students completing courses in this category will:</td>
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<tr>
<td>• communicate effectively in many different situations involving diverse people and viewpoints.</td>
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<tr>
<td>• understand and build upon complex issues and discover the connections and correlations among ideas to advance toward a valid independent conclusion.</td>
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<tr>
<td>• apply their knowledge and skills to new and varied situations.</td>
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<tr>
<td>• find and evaluate information by selecting and using appropriate research methods and tools.</td>
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<tr>
<td>• produce or respond to artistic and creative expression.</td>
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<tr>
<td>Art 101, 103, 104, 105</td>
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<tr>
<td>Dance 101, 110, 120, 130</td>
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<tr>
<td>Drama 103, 110, 111</td>
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<td>English 102, 106, 130, 131, 132, 133, 135, 138, 139, 144, 145, 146, 148</td>
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<tr>
<td>Film 101, 102, 103, 110</td>
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<tr>
<td>French 101, 102</td>
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</tbody>
</table>
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

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, 121
   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.

   Business 130
   Culinary Arts 120
   Early Childhood Studies 114
   Economics 130
   Emergency Medical Services 102
   Health Education 100
   Family and Consumer Sciences 109, 112, 120, 130, 131, 138
   Food Science and Nutrition 109, 112
   Human Services 106, 110
   Personal Development 100, 101, 102
   Psychology 106, 112, 113
   Sociology 106, 110
   Speech 103

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.
The use of a light table is a great way to see if your negatives are properly exposed. If they are, you can make great prints!

Jessica Worthington
Major: Liberal Arts
<table>
<thead>
<tr>
<th>DEGREES &amp; CERTIFICATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting.................. x</td>
</tr>
<tr>
<td>Administration of Justice ........ x</td>
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<tr>
<td>Basic Law Enforcement Academy ........ x</td>
</tr>
<tr>
<td>Agribusiness ........ Enology/Viticulture x</td>
</tr>
<tr>
<td>Wine Marketing and Sales...... x x x</td>
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<tr>
<td>Viticulture............. x x x</td>
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<tr>
<td>Pairing Wine and Food ........ x x x</td>
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<tr>
<td>Geographic Information Systems (GIS) with Agricultural Applications ........ x</td>
</tr>
<tr>
<td>Applied Design/Media Animation x</td>
</tr>
<tr>
<td>Graphics ......................... x</td>
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<tr>
<td>Multimedia Arts and Communication x</td>
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<tr>
<td>Photography .................... x</td>
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<tr>
<td>Website Design .................. x</td>
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<tr>
<td>Architectural Drafting .......... x x x</td>
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<tr>
<td>Art x</td>
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<tr>
<td>Auto Body Technology .......... x</td>
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<tr>
<td>Auto Body Metal ............ x x x</td>
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<tr>
<td>Auto Body Refinishing .......... x</td>
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<tr>
<td>Automotive Technology Auto Service Management .......... x</td>
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<tr>
<td>Auto Tune-Up &amp; Diagnostic Procedures ................ x</td>
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<tr>
<td>Auto Engine Rebuilding .......... x</td>
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<td>Automotive Chassis ............. x</td>
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<tr>
<td>High-Tech General Mechanic – Tune-Up Emission Control Specialist .......... x</td>
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<tr>
<td>High-Tech General Mechanic – Engine, Power Trains Specialist .......... x</td>
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<tr>
<td>Biology ......................... x</td>
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<td>Business Administration .......... x</td>
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<tr>
<td>Business Management ..................... x</td>
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<tr>
<td>Marketing ......................... x</td>
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<td>Business x</td>
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<td>Administrative Assistant ....................... x</td>
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<td>Human Resource Management ........ x</td>
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<td>Business Law ......................... x</td>
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<td>Customer Service ....................... x</td>
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<td>Supervisory Management ................... x</td>
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<tr>
<td>Executive Leadership ................... x</td>
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<tr>
<td>Entrepreneurship and Small Business Mgt x x x</td>
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<tr>
<td>Sales and Marketing .................. x</td>
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<tr>
<td>Chemistry ......................... x</td>
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<tr>
<td>Computer Business Information Systems ........ x x x</td>
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<tr>
<td>Computer Business Office Software .... x</td>
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<tr>
<td>Information Architecture ........ x</td>
</tr>
<tr>
<td>Office Systems Analysis ............ x</td>
</tr>
<tr>
<td>Office Software Support .......... x</td>
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<tr>
<td>Information Technology Fundamentals ........ x</td>
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<tr>
<td>Small Business Web Master .......... x</td>
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</tbody>
</table>

| A.A. A.S. Certificate |

<p>| Computer Business Office Technology Administrative Assistant/Secretarial ........ x x x |
| Legal Secretarial ......................... x x x |
| Word/Information Processing ........ x x x |
| Computer Business Office Skills ........ x |
| Computer Business Presentations and Publishing ....................... x |
| Administrative Office Skills ....................... x |
| Computer Science ......................... x |
| Cosmetology .................................. x x x |
| Culinary Arts and Management Restaurant Management ......................... x x x |
| Dietetic Service Supervision ............ x x x |
| Food Production Supervision ................ x x x |
| Food Services Production ................ x x x |
| Catering and Events Management .......... x |
| Baking .................................. x x x |
| Culinology® ......................... x |
| Dance .................................. x x x |
| Dental Assisting ......................... x x x |
| Drama Acting .................................. x x x |
| Design/Technical Theater ................ x x x |
| Early Childhood Studies General ...................... x x x |
| Elementary Education ....................... x x x |
| Elementary Education: Bilingual/Bicultural Emphasis .......... x x x |
| Preschool/Infant Toddler Program Director ...................... x x x |
| Special Education ......................... x x x |
| Electronics Technology Electronics Technology ........ x |
| Digital Systems ......................... x x x |
| Electronic Engineering Technology ................ x x x |
| Network Maintenance/ Digital Technologies ........ x x x |
| Electronic Training ......................... x x x |
| Mechatronics ......................... x x x |
| Emergency Medical Services ........ x x x |
| Paramedic Training ......................... x x x |
| Emergency Medical Technician 1 (Basic) ................ x x x |
| Emergency Medical Services Academy .......... x x x |
| EMT1 (Basic) Refresher ..................... x x x |
| Advanced Cardiac Life Support ........ x x x |
| First Responder Update ................ x x x |
| Engineering ......................... x x x |
| Engineering Technology ................ x x x |
| Civil Engineering ......................... x x x |
| Mechatronics ......................... x x x |
| Engineering Drafting ....................... x x x |
| Engineering ....................... x x x |
| Environmental Technology .......... x x x x x |
| Environmental Health &amp; Safety Technician x x x x x |</p>
<table>
<thead>
<tr>
<th>Field</th>
<th>A.A.</th>
<th>A.S.</th>
<th>Certificate</th>
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<tbody>
<tr>
<td>Family and Consumer Sciences</td>
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<tr>
<td>General</td>
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<tr>
<td>Fashion Studies</td>
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<tr>
<td>Fashion Merchandising</td>
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<tr>
<td>Interior Design Merchandising</td>
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<td>Film and Video Production</td>
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<td>Firefighter Academy</td>
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<td>Human Services</td>
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<td>General</td>
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<td>Addiction Studies</td>
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<td>Family Studies</td>
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<td>Co-Occurring Disorders</td>
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<td>Family Services Worker 1</td>
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<td>Family Services Worker 2</td>
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<tr>
<td>Specialized Helping Approaches</td>
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<td>International Studies</td>
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<tr>
<td>Liberal Arts – Non-Transfer Option</td>
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<td>Arts &amp; Humanities</td>
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<td>Mathematics &amp; Science</td>
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<td>Liberal Studies – Elementary</td>
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<td>Teacher Preparation</td>
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<td>Machine Technology</td>
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<td>Computer Science</td>
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<tr>
<td>Physics</td>
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<tr>
<td>Medical Assisting</td>
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<td>Medical Billing and Coding</td>
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<td>Music</td>
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<tr>
<td>Nursing</td>
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<tr>
<td>Certified Nursing Assistant</td>
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<td>Certified Home Health Aide</td>
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<td>Restorative Aide</td>
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<td>EKG/Monitor Observer</td>
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<tr>
<td>Physical Education Teaching</td>
<td>x</td>
<td></td>
<td></td>
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<tr>
<td>Physics</td>
<td>x</td>
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<tr>
<td>Psychology</td>
<td>x</td>
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<tr>
<td>Social Science</td>
<td>x</td>
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<tr>
<td>Sound Technology</td>
<td>x</td>
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<tr>
<td>Spanish</td>
<td>x</td>
<td></td>
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</tr>
<tr>
<td>Speech Communication</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Communication Skills for Public Safety and Health Professionals</td>
<td>x</td>
<td></td>
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<tr>
<td>Communication Skills for the Business</td>
<td>x</td>
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<tr>
<td>Professional</td>
<td>x</td>
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<tr>
<td>Communication Skills for the Professional Speaker</td>
<td>x</td>
<td></td>
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</tr>
<tr>
<td>Transfer Studies</td>
<td></td>
<td>x</td>
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</tr>
<tr>
<td>CSU General Studies Breadth</td>
<td>x</td>
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<tr>
<td>Intersegmental General Education (IGETC)</td>
<td>x</td>
<td></td>
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</tr>
<tr>
<td>UC/CSU Transfer Studies (Math, Engineering &amp; Science majors)</td>
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<tr>
<td>Welding Technology</td>
<td>x</td>
<td></td>
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<tr>
<td>Metal Fabrication</td>
<td>x</td>
<td></td>
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<tr>
<td>Pipe Welding</td>
<td>x</td>
<td></td>
<td></td>
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<tr>
<td>Wildland Firefighting</td>
<td></td>
<td>x</td>
<td></td>
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<tr>
<td>Operations</td>
<td>x</td>
<td></td>
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<tr>
<td>Prevention, Investigation, Prescribed</td>
<td>x</td>
<td></td>
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<tr>
<td>Burning</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Logistics, Finance, Planning</td>
<td>x</td>
<td></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>
<td>3</td>
</tr>
<tr>
<td>ACCT 160</td>
<td>Introduction to Financial Statement Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 170</td>
<td>Introduction to Tax Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
</tr>
</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>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: Contract and Sales</td>
<td>3</td>
</tr>
<tr>
<td>BUS 130</td>
<td>Consumer and Family Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS 140</td>
<td>Survey of International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 141</td>
<td>Spreadsheet Applications</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 142</td>
<td>Database Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended elective:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 399</td>
<td>Special Topics in Accounting</td>
<td>.5-3</td>
</tr>
</tbody>
</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>
</tr>
</thead>
<tbody>
<tr>
<td>AJ 101</td>
<td>Administration of Justice System</td>
<td>3</td>
</tr>
<tr>
<td>AJ 102</td>
<td>Principles and Procedures of the Justice System</td>
<td>3</td>
</tr>
<tr>
<td>AJ 103</td>
<td>Concepts of Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>AJ 104</td>
<td>Legal Aspects of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>AJ 105</td>
<td>Community Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

ADMINISTRATION OF JUSTICE - 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.

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 production.

The graduate of the AA program in viticulture/enology 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.
- 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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required core courses (21 units):</td>
<td></td>
</tr>
<tr>
<td>AG 101</td>
<td>Introduction to Winemaking</td>
<td>3</td>
</tr>
<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>
<td>3</td>
</tr>
<tr>
<td>AG 104</td>
<td>Advanced Sensory Evaluation of Wine</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 140</td>
<td>Introductory Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 150</td>
<td>General Chemistry 1</td>
<td>5</td>
</tr>
</tbody>
</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 121  Fundamentals of Programming 1 4
FSN 110  Nutrition Science 3
GIS/AG 111  Global Positioning Systems 1
GIS/AG 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

AGRICULTURE: WINEMAKING AND SALES (A.S. & Certificate of Achievement)

AG 105  Wine Marketing and Sales 3
AG 106  Winery Organization 3
AG 149  Cooperative Work Experience: Occupation (related to Wine Making and Marketing) 1-8
AG 301  Pairing Wine and Food .5
AG 302  Advanced Pairing Wine and Food .5
AG 303  Epicurean Wine and Food .5
BUS 101  Introduction to Business 3
BUS 103  Advertising 3
BUS 104  Business Organization and Management 3

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

AGRICULTURE: VITICULTURE

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 vinegrape 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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td></td>
<td>Required core courses (23 units):</td>
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<tr>
<td>AG 101</td>
<td>Introduction to Winemaking</td>
<td>3</td>
</tr>
<tr>
<td>AG 102</td>
<td>Introduction to Viticulture</td>
<td>3</td>
</tr>
<tr>
<td>AG 120</td>
<td>Viticulture Operations 1</td>
<td>3</td>
</tr>
<tr>
<td>AG 121</td>
<td>Viticulture Operations 2</td>
<td>3</td>
</tr>
<tr>
<td>AG 122</td>
<td>Viticulture Operations 3</td>
<td>3</td>
</tr>
<tr>
<td>AG 125</td>
<td>Soils and Plant Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>AG 130</td>
<td>Integrated Pest Management for Grapes</td>
<td>4</td>
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</tbody>
</table>

Plus a minimum of 9 units selected from the following:

AG 103  Sensory Evaluation of Wine 3
AG 105  Wine Marketing and Sales 3
AG 106  Winery Organization 3
AG 149  Cooperative Work Experience: Occupation (related to Viticulture) 1-8
AG 301  Pairing Wine and Food .5
AG 302  Advanced Pairing Wine and Food .5
AG 303  Epicurean Wine and Food .5
BUS 101  Introduction to Business 3
BUS 103  Advertising 3

AGRICULTURE: 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 vinegrape 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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<tr>
<td></td>
<td>Required core courses (23 units):</td>
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<tr>
<td>AG 101</td>
<td>Introduction to Winemaking</td>
<td>3</td>
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<tr>
<td>AG 102</td>
<td>Introduction to Viticulture</td>
<td>3</td>
</tr>
<tr>
<td>AG 120</td>
<td>Viticulture Operations 1</td>
<td>3</td>
</tr>
<tr>
<td>AG 121</td>
<td>Viticulture Operations 2</td>
<td>3</td>
</tr>
<tr>
<td>AG 122</td>
<td>Viticulture Operations 3</td>
<td>3</td>
</tr>
<tr>
<td>AG 125</td>
<td>Soils and Plant Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>AG 130</td>
<td>Integrated Pest Management for Grapes</td>
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</table>

AGRICULTURE - 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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<td>Required core courses (29.5 units):</td>
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<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>
<td>3</td>
</tr>
<tr>
<td>AG 104</td>
<td>Advanced Sensory Evaluation of Wine</td>
<td>3</td>
</tr>
</tbody>
</table>
BIOL 154 General Botany 5
BUS 104 Business Organization and Management 3
BUS 160 Business Communications 3
CBIS 101 Computer Concepts and Applications 3
or
CS 102 Introduction to Computing with HTML 3
CHEM 150 General Chemistry 1 5

Recommended elective:
AG 360 Advances in Viticulture .5

AGRICULTURE - 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.

COURSE NUMBER TITLE UNITS
AG 301 Pairing Wine and Food .5
AG 302 Advanced Pairing Wine and Food .5
AG 303 Epicurean Wine and Food .5
AG 304 Dessert Wine and Food Pairing .5
AG 305 Pairing the Wines and Foods of Provence .5
AG 306 Pairing the Wines and Foods of Tuscany .5

AGRICULTURE - 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.

COURSE NUMBER TITLE UNITS
AG /GIS 111 Global Positioning Systems (GPS) 1
AG /GIS 112 Fundamentals of Mapping with GIS 3
AG 120 Vineyard Operations 1 3
AG 121 Vineyard Operations 2 3
AG 149 Cooperative Work Experience: Occupational 1-8
AG 189 Independent Projects in Agribusiness 1-4

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.

COURSE NUMBER TITLE UNITS
ART/MMAC 101 Introduction to Multimedia Processes 2
MMAC 102 Introduction to Multimedia Lab 1

Plus a minimum of 9 units selected from the following:

ART 107 Computer Fine Art 3
ART 123 Life Drawing 2 3
GRPH 130 3D Modeling for Product Design 3
FILM 110 Introduction Motion Picture and Video Production 4
MMAC 116 AB Intermediate Animation 3, 3
MMAC 118 AB 3D Computer Animation 2 3, 3
MMAC 114 Dynamic Internet Design 3
MMAC 125 Computer Video Editing 2
MUS 118 Introduction to Electronic Music 3

APPLIED DESIGN/MEDIA: GRAPHICS (A.S.)

The applied design-graphics program prepares students for transfer to university graphics programs and entry level employment. A variety of design career options are available including illustration, graphic design, design for print publications, digital photography and website graphics development. Introductory courses will provide individuals with hands on experience using a number of visual mechanics techniques and software applications. Core courses will teach students an understanding of visual communication and provide a strong foundation of digital imagery concepts and skills. Capstone courses offer a unique opportunity for students to address clients’ marketing design needs while creating a collective portfolio of student work. Successful completion of this program leads to an Associate of Science degree in applied design-graphics.

The graduate of the AS program in graphics will:

- Demonstrate an understanding of the core concepts, terms, tools and methods used to create digital illustrations, complex page layout documents and web-based multimedia content.
- Digitize, manipulate and prepare photographic files for print and Web publication.
• Work as a team to plan, create, implement, test and manage graphic communication production tasks.
• Produce a website portfolio that showcases individual graphic design competencies.
• Control the production process, develop ownership of industry specific tools, participate in visual story telling, design visual language layouts and find their individual creative voice.

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

**APPLIED DESIGN/MEDIA - MULTIMEDIA ARTS AND COMMUNICATION (A.S.)**

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 arts & communication 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.
• Design, build, test and present websites, animations, motion graphics sequences and interactive disks.
• Plan and budget a project for presentation to a client.
• Produce a website portfolio or DVD reel that showcases individual multimedia competencies.

A major of 36 units is required for the associate in science degree. All students will select an area of concentration.

**DEGREES & CERTIFICATES**
The graduate of the certificate program in website design will:

- Employ a range of software programs to create and manipulate Web-appropriate digital imagery and animation.
- Plan and budget a website project for presentation to a client.
- Design, build, test and present websites for a 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.
- Produce a website portfolio that showcases individual Web competencies.
- 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.
- Plan and budget a website project for presentation to a client.

Fifteen units is required for the certificate.

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<thead>
<tr>
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<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td></td>
<td>Required core courses (12 units):</td>
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<tr>
<td>CS 102</td>
<td>Introduction to Computing with HTML</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 152</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 161</td>
<td>Materials Science</td>
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</tr>
<tr>
<td>ENGR 162</td>
<td>Materials Science Lab</td>
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<tr>
<td>GEOL 100</td>
<td>Physical Geology</td>
<td>4</td>
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<tr>
<td>PHTO 110</td>
<td>Basic Photography</td>
<td>3</td>
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<tr>
<td>PHTO 170</td>
<td>Digital Photography</td>
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<tr>
<td>PHTO 171</td>
<td>Digital Photography Lab</td>
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<tr>
<td>ART 110</td>
<td>Separate 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 107</td>
<td>Computer Fine Art</td>
<td>3</td>
</tr>
<tr>
<td>ART/</td>
<td>Design 1 on the Computer</td>
<td>3</td>
</tr>
<tr>
<td>GRPH 108</td>
<td>Electronic Imagery Lab</td>
<td>1</td>
</tr>
<tr>
<td>GRPH 111</td>
<td>Electronic Imagery Lab</td>
<td>3</td>
</tr>
</tbody>
</table>

**APPLIED DESIGN/MEDIA - WEBSITE DESIGN**

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.

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

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required core courses (23 units):</td>
<td></td>
</tr>
<tr>
<td>ARCH 111</td>
<td>Architectural Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 112</td>
<td>Architectural Delineation</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 121</td>
<td>Architectural Drawing</td>
<td>1</td>
</tr>
<tr>
<td>ARCH 122</td>
<td>Architectural Drawing Lab</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 131</td>
<td>Materials of Construction</td>
<td>3</td>
</tr>
<tr>
<td>ARCH/ET 160</td>
<td>Digital Tools in Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Design 1</td>
<td>3</td>
</tr>
</tbody>
</table>

A major of 27-28 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></td>
<td>Required core courses (27-28 units):</td>
<td></td>
</tr>
<tr>
<td>ART 103</td>
<td>Art History Survey (Ancient to Medieval)</td>
<td>3</td>
</tr>
<tr>
<td>ART 104</td>
<td>Art History Survey (Renaissance to Modern)</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art of the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>ART 107</td>
<td>Computer Fine Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>Design 1 on the Computer</td>
<td>3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Design 1</td>
<td>3</td>
</tr>
</tbody>
</table>

**ARCHITECTURAL DRAFTING**

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.

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

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
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<tr>
<td>ARCH 121</td>
<td>Architectural Drawing</td>
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<td>ARCH 122</td>
<td>Architectural Drawing Lab</td>
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</tr>
<tr>
<td>ARCH 131</td>
<td>Materials of Construction</td>
<td>3</td>
</tr>
<tr>
<td>ARCH/ET 160</td>
<td>Digital Tools in Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Design 1</td>
<td>3</td>
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A major of 27-28 units is required for the associate in arts degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
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<th>UNITS</th>
</tr>
</thead>
<tbody>
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<td>ART 106</td>
<td>Art of the 20th Century</td>
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<td>ART 107</td>
<td>Computer Fine Art</td>
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</tr>
<tr>
<td>ART 108</td>
<td>Design 1 on the Computer</td>
<td>3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Design 1</td>
<td>3</td>
</tr>
</tbody>
</table>
The graduate of the AS program in auto body technology will:

- Develop good work and safety habits while in the auto body workplace.
- Understand the basic theory of auto body metal repair and plastic filler application.
- Recognize and properly use paint equipment and materials in the automotive painting industry.
- Develop commercial acceptable skills and speed in refinishing vehicles.
- Demonstrate the ability to effectively communicate verbally and in writing with customers, co-workers and the employer.

Eighteen units constitute the certificate.

### Course Offerings

**Required core courses (18 units):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB 351</td>
<td>Auto Body - Metal</td>
<td>3</td>
</tr>
<tr>
<td>AB 353</td>
<td>Auto Body - Repair</td>
<td>3</td>
</tr>
<tr>
<td>AB 356</td>
<td>Automotive Painting Techniques</td>
<td>3</td>
</tr>
<tr>
<td>AB 358</td>
<td>Automotive Refinishing</td>
<td>3</td>
</tr>
<tr>
<td>AB 360</td>
<td>Collision and Painting Repair</td>
<td>5</td>
</tr>
<tr>
<td>AT 303</td>
<td>Automotive Electricity</td>
<td>4</td>
</tr>
</tbody>
</table>

### AUTO BODY METAL (Certificate of Achievement)

Demonstrate commercially acceptable skills and speed in refinishing vehicles.

**Required core courses (18 units):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB 351</td>
<td>Auto Body - Metal</td>
<td>3</td>
</tr>
<tr>
<td>AB 353</td>
<td>Auto Body - Repair</td>
<td>3</td>
</tr>
<tr>
<td>AB 356</td>
<td>Automotive Painting Techniques</td>
<td>3</td>
</tr>
<tr>
<td>AB 358</td>
<td>Automotive Refinishing</td>
<td>3</td>
</tr>
<tr>
<td>AB 360</td>
<td>Collision and Painting Repair</td>
<td>5</td>
</tr>
<tr>
<td>AT 303</td>
<td>Automotive Electricity</td>
<td>4</td>
</tr>
</tbody>
</table>

### AUTO BODY REFINISHING (Certificate of Accomplishment)

- Recognize and properly use paint equipment and materials in the automotive painting industry.
- Develop commercial acceptable skills and speed in refinishing vehicles.

Fifteen units constitute the certificate.

**Course Offerings**

**Required core courses (15 units):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB 351</td>
<td>Auto Body - Metal</td>
<td>3</td>
</tr>
<tr>
<td>AB 354</td>
<td>Selected Auto Body Paint Projects</td>
<td>1</td>
</tr>
<tr>
<td>AB 356</td>
<td>Automotive Painting Techniques</td>
<td>3</td>
</tr>
<tr>
<td>AB 358</td>
<td>Automotive Refinishing</td>
<td>3</td>
</tr>
<tr>
<td>AB 360</td>
<td>Collision and Painting Repairs</td>
<td>5</td>
</tr>
</tbody>
</table>

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

- Develop 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 the ability to effectively communicate verbally and in writing with customers, co-workers and the employer.

The graduate of the AS program in auto service management will:
AUTOMOTIVE TECHNOLOGY - AUTO TUNE-UP AND DIAGNOSTIC PROCEDURES (A.S.)

Designed to prepare the student to enter the automotive service profession as a specialist in automotive tune-up and diagnostic procedures.

The graduate of the AS program in auto tune-up and diagnostic procedures will:

- 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 ability to effectively communicate verbally and in writing with customers, co-workers and the employer.
- Demonstrate the ability to quickly master new techniques and skills as required in the automotive tune-up and diagnostic specialty.
- Demonstrate the ability to diagnose problems with the various systems of the automobile using systematic procedures and logical methods.
- Demonstrate the ability to work with a high degree of precision and accuracy using all of the machine tools involved in automotive engine rebuilding.
- Demonstrate the use of the proper procedure for dealing with hazards encountered in the automotive repair workplace.
- 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 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 314</td>
<td>Suspension and Alignment</td>
<td>4</td>
</tr>
<tr>
<td>AT 323</td>
<td>Power Trains</td>
<td>5</td>
</tr>
<tr>
<td>BUS 104</td>
<td>Business Organization &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 107</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
</tbody>
</table>

AUTOMOTIVE TECHNOLOGY - AUTO ENGINE REBUILDING (A.S.)

Designed to prepare the student to enter the automotive service profession as a specialist in engine rebuilding and machining.

The graduate of the AS program in auto engine rebuilding will:

- Demonstrate an understanding of the science of the automotive engine.
- Demonstrate the ability to use the latest techniques and tools used in servicing the automotive drive train.
- Demonstrate the ability to diagnose problems with the various systems of the automobile using systematic procedures and logical methods.
- Demonstrate the ability to effectively communicate verbally and in writing with customers, co-workers and the employer.
- 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 evolving technology in the automotive control systems and the impact the automobile has on our environment.
- Demonstrate the use of the proper procedure for dealing with hazards encountered in the automotive repair workplace.
- Demonstrate the ability to perform all of the NATEF tasks in each of the core courses in the option or certificate.

A major of 19 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>AT 133</td>
<td>Automotive Engine Rebuilding</td>
<td>5</td>
</tr>
<tr>
<td>AT 303</td>
<td>Automotive Machinery</td>
<td>4</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>
<tr>
<td>MT 109</td>
<td>Survey of Machining</td>
<td>4</td>
</tr>
</tbody>
</table>

AUTOMOTIVE TECHNOLOGY - AUTOMOTIVE CHASSIS (A.S.)

Designed to prepare the student to enter the automotive service profession as a specialist in brake and front end work.

The graduate of the AS program in automotive chassis will:

- Demonstrate an understanding of the science of the automotive drive train systems.
- Demonstrate an understanding of the legal and ethical issues encountered in the automotive repair workplace and make responsible decisions.
- Demonstrate the use of the proper procedure for dealing with hazards encountered in the automotive repair workplace.
- Demonstrate the ability to perform all of the NATEF tasks in each of the core courses in the option or certificate.

A major of 23 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>AT 133</td>
<td>Automotive Engine Rebuilding</td>
<td>5</td>
</tr>
<tr>
<td>AT 303</td>
<td>Automotive Electricity</td>
<td>4</td>
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<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>
<tr>
<td>MT 109</td>
<td>Survey of Machining</td>
<td>4</td>
</tr>
</tbody>
</table>
A major of 27 units is required for the associate in science degree.

### COURSE NUMBER | TITLE | UNITS
--- | --- | ---
AT 133 | Automotive Engine Rebuilding | 5
AT 303 | Automotive Electricity | 4
AT 313 | Automotive Brakes | 4
AT 314 | Suspension and Alignment | 4
AT 323 | Power Trains | 5
AT 324 | Automatic Transmissions | 5

**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 General Service Technician: 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-five units constitute the certificate.

### COURSE NUMBER | TITLE | UNITS
--- | --- | ---
AT 133 | Automotive Engine Rebuilding | 5
AT 303 | Automotive Electricity | 4
AT 313 | Automotive Brakes | 4
AT 323 | Power Trains | 5
AT 324 | Automatic Transmissions | 5
AT 334 | Automotive Machining | 5
AT 343 | Automotive Tune-Up and Engine Analysis | 5
AT 399 | Topics in ASE Certification Prep | 2

**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 content knowledge of biodiversity.
- Demonstrate effective communication using the language, concepts and models of biology.

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

### COURSE NUMBER | TITLE | UNITS
--- | --- | ---
BIOL 132 | Marine Biology | 4
BIOL 145 | Desert Ecology | 2
BIOL 179 | Workshops in Biology | 1-3
BIOL 189 | Independent Projects in Biology | 1-3
BIOL 199 | Special Topics in Biology | 1-3

Required core courses (37 units):

### COURSE NUMBER | TITLE | UNITS
--- | --- | ---
AT 133 | Automotive Engine Rebuilding | 5
AT 303 | Automotive Electricity | 4
AT 306 | Automotive Air Conditioning System | 1
AT 313 | Automotive Brakes | 4
AT 323 | Power Trains | 5
AT 341 | Automotive Carburetion/Injection | 5
AT 343 | Automotive Tune-Up and Engine Analysis | 5
AT 344 | Automotive Emission Control | 4
AT 346 | Computerized Engine Control | 4

**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 General Service Technician: 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.

### COURSE NUMBER | TITLE | UNITS
--- | --- | ---
AT 133 | Automotive Engine Rebuilding | 5
AT 303 | Automotive Electricity | 4
AT 313 | Automotive Brakes | 4
AT 323 | Power Trains | 5
AT 324 | Automatic Transmissions | 5
AT 334 | Automotive Machining | 5
AT 343 | Automotive Tune-Up and Engine Analysis | 5
AT 399 | Topics in ASE Certification Prep | 2

Required core courses (15 units):

### COURSE NUMBER | TITLE | UNITS
--- | --- | ---
CHEM 150 | General Chemistry 1 | 5
CHEM 151 | General Chemistry 2 | 5
PHYS 141 | General Physics 1 | 4
PHYS 142 | General Physics 2 | 4

Plus a minimum of 8 units selected from the following, all of which are required for the baccalaureate degree:

### COURSE NUMBER | TITLE | UNITS
--- | --- | ---
BIOL 132 | Marine Biology | 4
BIOL 145 | Desert Ecology | 2
BIOL 179 | Workshops in Biology | 1-3
BIOL 189 | Independent Projects in Biology | 1-3
BIOL 199 | Special Topics in Biology | 1-3

Recommended electives:
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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required core courses (25 units):</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>
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<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 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></td>
<td>Required core courses (27 units):</td>
<td></td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Survey of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 130</td>
<td>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>
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</tr>
<tr>
<td>BUS 107</td>
<td>Human Relations in Business</td>
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</tr>
<tr>
<td>BUS 110</td>
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</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>CBOT 333</td>
<td>Basic Desktop and Internet Publishing for Business</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 142</td>
<td>Microsoft Access - Comprehensive</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 6 units selected from the following:
- BUS 103 Advertising 3
- BUS 106 Small Business Management 3
- BUS 111 Internet Marketing 3
- BUS 140 Survey of International Business 3
- BUS 303 Sales and Marketing 3
- BUS 149 Cooperative Work Experience: Occupational (related to Marketing) 1-4

BUSINESS (Certificate of Achievement)
The business certificate prepares students for immediate employment in entry-level management positions. The 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 certificate program in business will:
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 of accomplishment 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 NUMBER</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 396</td>
<td>Performance Measurement</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 391</td>
<td>Human Resource Management: Series</td>
<td>3</td>
</tr>
</tbody>
</table>

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 of accomplishment 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 NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<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 370</td>
<td>Ethics and Integrity</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 377</td>
<td>Managing Service Quality</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 394</td>
<td>Management: Verbal</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 401</td>
<td>Management: Listening</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 389</td>
<td>Customer Service: Series</td>
<td>3</td>
</tr>
</tbody>
</table>

PLUS a minimum of 1 unit selected from the following:
- CBOT 131 Introduction to Word Processing 3
- CBIS 141 Microsoft Excel - Comprehensive 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 of accomplishment 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.

Two and a half to five and a half units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</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>
</tbody>
</table>

CURSE NUMBER TITLE UNITS
BUS 369 Employment Law .5
BUS 370 Ethics and Integrity .5
BUS 371 Sexual Harassment Law/Prevention .5
BUS 373 Forming a Small Business .5

Three units constitute the certificate.

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<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 373</td>
<td>Forming a Small Business</td>
<td>.5</td>
</tr>
</tbody>
</table>

Twenty-four units constitute the business certificate.

Required core courses (24 units):

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<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 302</td>
<td>Essentials of 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>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 131 Introduction to Word Processing</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 of accomplishment 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 NUMBER</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 373</td>
<td>Performance Measurement</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 375</td>
<td>Patents and Copyright Law</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 396</td>
<td>Performance Measurement</td>
<td>.5</td>
</tr>
</tbody>
</table>

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 of accomplishment 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.

Two and a half to five and a half units constitute the certificate.

<table>
<thead>
<tr>
<th>NUMBER</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BUS 360</td>
<td>Introduction to Supervision</td>
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<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>
</tbody>
</table>
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 of accomplishment 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 NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<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>
<tr>
<td>BUS 402</td>
<td>Managing Organizations</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 387</td>
<td>Executive Leadership: The Series</td>
<td>3</td>
</tr>
<tr>
<td>BUS 387</td>
<td>Essentials of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

BUSINESS - ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT (Certificate of Accomplishment)
The certificate of accomplishment in entrepreneurship and small business management prepares students to start their own 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 certificate of accomplishment 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.

Three units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 364</td>
<td>Winning Business Plans</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 366</td>
<td>Promoting a Small Business</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 376</td>
<td>Performance Measurement</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 378</td>
<td>Effective Sales Methods</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 380</td>
<td>Marketing Strategies</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 382</td>
<td>Advertising and Public Relations Strategies</td>
<td>5</td>
</tr>
<tr>
<td>BUS 388</td>
<td>Small Business Management: Series</td>
<td>3</td>
</tr>
</tbody>
</table>

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 of accomplishment 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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 366</td>
<td>Promoting Small Business</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 378</td>
<td>Effective Sales Methods</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 380</td>
<td>Marketing Strategies</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 381</td>
<td>Entering Global Markets</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 382</td>
<td>Advertising and Public Relations Strategies</td>
<td>5</td>
</tr>
<tr>
<td>BUS 401</td>
<td>Management: Listening</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 303</td>
<td>Sales and Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

<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>CHEM 151</td>
<td>General Chemistry 2</td>
<td>5</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>PHYS 161</td>
<td>Engineering Physics 1</td>
<td>5</td>
</tr>
<tr>
<td>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>

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 105 | 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
EL/COM SC 105 | 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/SC 310 | Introduction to Network Platforms, NOSSs, 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
--- | --- | ---
CBOT 360 | Essentials of Word Processing | 1
CBIS 373 | Introduction to Windows | 1
CBOT 361 | Introduction to Presentation Design | 1
CBIS 371 | Introduction to Spreadsheet Applications | 1
CBIS 372 | Introduction to Database Applications | 1

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
--- | --- | ---
Required core courses (6.5 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 | 1.5
CBIS 343 | Applied Project Management | 1.5
CBIS 372 | Introduction to Database Applications | 1
CBIS 375 | Introduction to Fireworks | .5
COM SC 102 | Introduction to Computing with HTML | 3
MMAC 114 | Dynamic Internet Design | 3

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.

Thirteen and one-half units constitute the certificate.
### COMPUTER BUSINESS INFORMATION SYSTEMS - OFFICE SOFTWARE SUPPORT

(Certificate of Accomplishment)

This certificate covers office applications and Web fundamentals. Students completing this certificate will be able to provide support in the office applications and basic Web maintenance.

The graduate of the certificate program in office software support will:
- Illustrate knowledge by understanding and applying the correct computer terms and technology.
- Design/create/modify documents, spreadsheets, databases and presentations for business and personal use.
- Use effective written and oral communication to support business information systems needs.
- Modify/manage website files and folders.

Fifteen units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CBOT 132</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 141</td>
<td>Microsoft Excel - Comprehensive</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 321</td>
<td>Internet Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 337</td>
<td>Presentation Design - Power Point</td>
<td>3</td>
</tr>
</tbody>
</table>

### 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>CBOT 131</td>
<td>Introduction to Word Processing</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 315</td>
<td>Programming for the Web 1</td>
<td>1.5</td>
</tr>
<tr>
<td>CBIS 359</td>
<td>Introduction to Fireworks</td>
<td>.5</td>
</tr>
<tr>
<td>CBIS 372</td>
<td>Introduction to Database Applications</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>

### COMPUTER BUSINESS OFFICE TECHNOLOGY - ADMINISTRATIVE ASSISTANT/SECRETARIAL

(A.S. & Certificate of Achievement)

Administrative Assistant/Secretarial is designed to prepare students for entrance into positions working with upper level management. Training includes all phases of administrative/secretarial work with emphasis on software applications such as word processing, desktop publishing, presentation graphics and records management. Business communication and administrative operations and procedures are also emphasized.

The graduate of the AS or certificate program in administrative assistant/secretarial will:
- Create memos and letters addressing critical thinking assignments.
- Apply proper filing rules and create an electronic database using appropriate software.
- Apply proper administrative operations and procedures for business.
- Demonstrate the use of software applications to accomplish appropriate tasks.
- 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>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 359</td>
<td>Introduction to Fireworks</td>
<td>.5</td>
</tr>
<tr>
<td>CBIS 372</td>
<td>Introduction to Database Applications</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>

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>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 325</td>
<td>Machine Transcription</td>
<td>1</td>
</tr>
</tbody>
</table>
CBOT 333 Basic Desktop and Internet Publishing for Business 3
CBOT 334 Administrative Operations and Office Procedures 3
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
(required to CBIS Administrative Assistant/Secretarial)
CBIS 141 Spreadsheet Applications 3
CBIS 142 Database Applications 3
CBOT 336 Introduction to Internet Explorer 1
CBOT 362 Business Desktop Publishing 1

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>Required core courses (19 units):</td>
<td></td>
<td></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>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 305</td>
<td>Legal Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 325</td>
<td>Machine Transcription</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 334</td>
<td>Administrative Operations and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>Plus a minimum of 9 units selected from the following: (Strongly recommended: CBIS 141, CBIS 142, CBIS 373)</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></td>
<td></td>
</tr>
<tr>
<td>ACCT 130</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 107</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 149</td>
<td>Cooperative Work Experience: Occupational 1-3 (related to CBOT Legal Secretarial)</td>
<td></td>
</tr>
<tr>
<td>CBIS 141</td>
<td>Microsoft Excel - Comprehensive</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 142</td>
<td>Microsoft Access - Comprehensive</td>
<td>3</td>
</tr>
<tr>
<td>CBIS 373</td>
<td>Introduction to Windows</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 302</td>
<td>Records Management</td>
<td>2</td>
</tr>
<tr>
<td>CBOT 333</td>
<td>Basic Desktop and Internet Publishing for Business</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 336</td>
<td>Introduction to Internet Explorer</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 337</td>
<td>Presentation Design - PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 362</td>
<td>Business Desktop Publishing</td>
<td>1</td>
</tr>
</tbody>
</table>
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.

### COURSE NUMBER TITLE UNITS

<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>.5</td>
</tr>
<tr>
<td>or</td>
<td>Management: Listening</td>
<td>.5</td>
</tr>
<tr>
<td>BUS 377</td>
<td>Managing Service Quality</td>
<td>.5</td>
</tr>
<tr>
<td>CBOT 336</td>
<td>Introduction to Internet Explorer</td>
<td>1</td>
</tr>
<tr>
<td>CBIS 373</td>
<td>Introduction to Windows</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 360</td>
<td>Essential Word Processing</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.

### COURSE NUMBER TITLE UNITS

<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>.5</td>
</tr>
<tr>
<td>CBOT 336</td>
<td>Introduction to Internet Explorer</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 360</td>
<td>Essential Word Processing</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 361</td>
<td>Introduction to PowerPoint</td>
<td>1</td>
</tr>
<tr>
<td>CBOT 362</td>
<td>Business Desktop Publishing</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.

### COURSE NUMBER TITLE UNITS

<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>Basic Desktop and Internet Publishing for Business</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 334</td>
<td>Administrative Operations and Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CBOT 337</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. Graduates will be able to recall significant computer science concepts, vocabulary and theories; produce programming projects in a variety of languages; demonstrate the ability to follow instructions; and find and correct programming errors.

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.

### COURSE NUMBER TITLE UNITS

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 121</td>
<td>Fundamentals of Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CS 122</td>
<td>Fundamentals of Programming 2</td>
<td>2</td>
</tr>
<tr>
<td>CS 123</td>
<td>Fundamentals of Programming 3</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>
<tr>
<td>MATH 181</td>
<td>Calculus 1</td>
<td>5</td>
</tr>
</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>CS 161</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 172</td>
<td>Linux and Shell Scripting</td>
<td>3</td>
</tr>
<tr>
<td>CS 175</td>
<td>Object-Oriented 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:
- Demonstrate the ability to follow instructions.
- Apply proper administrative operations and procedures for business.
- Communicate clearly and professionally.
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-four units constitute the certificate.

COURSE NUMBER  TITLE  UNITS
CA 118  Beverage Management  1
CA/FCS 120  Principles of Foods 1  4
CA 121  Basic Baking  3
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)  3
FCS/FSN 109  Basic Nutrition for Health  3
FSN 110  Nutrition Science  3
FCS 131  Life Management  3
FSN 132  Introduction to Culinology Profession  3

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

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
CA/FCS 120  Principles of Foods 1  4
CA 124  Sanitation, Safety, and Equipment  3
CA 125  Supervision and Training Techniques  3
CA 126  Food Production Cost, Control and Management  3
FCS/FSN 109  Basic Nutrition for Health  3
FSN 127  Supervised Field Experience-Food Services  2
FSN 128  Supervised Field Experience-Dietetics  2

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 .5
CA 149  Cooperative Work Experience: Occupational (related to Food Production Supervision)  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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 119</td>
<td>Introduction to the Hospitality Industry</td>
<td>2</td>
</tr>
<tr>
<td>CA/FCS 120</td>
<td>Principles of Foods 1</td>
<td>4</td>
</tr>
<tr>
<td>CA/FCS 123</td>
<td>Principles of Foods 2</td>
<td>2</td>
</tr>
<tr>
<td>CA 124</td>
<td>Sanitation, Safety, and Equipment</td>
<td>3</td>
</tr>
<tr>
<td>CA 149</td>
<td>Cooperative Work Experience: Occupational</td>
<td>2</td>
</tr>
</tbody>
</table>

Required electives:

CA/FCS 123 Principles of Foods 2  2
CA 149 Cooperative Work Experience: Occupational (related to Catering)  2

Fifteen units constitute the certificate.

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.

<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 124</td>
<td>Sanitation, Safety, and Equipment</td>
<td>3</td>
</tr>
<tr>
<td>CA 323</td>
<td>Specialty and Wedding Cakes</td>
<td>1</td>
</tr>
<tr>
<td>CA 324</td>
<td>Cake Decorating and Decorative Work</td>
<td>1</td>
</tr>
</tbody>
</table>

Recommended electives:

CA/FCS 123 Principles of Foods 2  2
CA 149 Cooperative Work Experience: Occupational (related to Baking)  2
FCS 199 Special Topics in Foods and Nutrition  .5-3

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 scientist/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 dietetics.

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 25 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>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/FCS 123</td>
<td>Principles of Foods 2</td>
<td>2</td>
</tr>
</tbody>
</table>

Required core courses (25 units):

Fifteen units constitute the certificate.
DANC 181 Ensemble Summer Production 2
DANC 176 Choreography Field Work 2
DANC 175 Salsa, Swing and Two-Step .5
DANC 172 Ballroom Dance .5
DANC 167 Rhythm Tap .5
DANC 155 Pilates-based Body Conditioning .5
DANC 151 Clinic in Tap .5
DANC 154 Pointe and Partnering 1
DANC 155 Pilates-based Body Conditioning .5
DANC 167 Rhythm Tap .5
DANC 172 Ballroom Dance .5
DANC 175 Salsa, Swing and Two-Step .5
DANC 176 Choreography Field Work 2
DANC 181 Ensemble Summer Production 2
DANC 183 Dance Ensemble 3
DANC 186 Dance Production 2
MUS 110 Music Fundamentals 2
DANC 182 Technical Production Lab 3
DANC 180 Performance Lab 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 an informed viewpoint of dance as an art form.
- Demonstrate choreographic skills including supervisory and effective communicative abilities.

A major of 26-27 units is required for the associate in arts degree. Demonstrated proficiency in two out of the three dance forms is required for the degree.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required core courses (26 units):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 2 of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANC 115</td>
<td>Freestyle Dance Forms</td>
<td>3</td>
</tr>
<tr>
<td>DANC 125</td>
<td>Classical Dance Forms</td>
<td>3</td>
</tr>
<tr>
<td>DANC 135</td>
<td>Commercial Dance Forms</td>
<td>3</td>
</tr>
<tr>
<td>Select 1 of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANC 140</td>
<td>Folkloric Dances of Mexico and Spain</td>
<td>1</td>
</tr>
<tr>
<td>DANC 152</td>
<td>Musical Theater Forms: Tap Dance</td>
<td>2</td>
</tr>
</tbody>
</table>

Additional required core courses:
- DANC 101 Dance Appreciation 3
- DANC 170 Rhythms for Dancers 1
- DANC 171 Dance Composition/Choreography 3
- DANC 180 Performance Lab 3
- DANC 182 Technical Production Lab 3
- DRMA 104 Introduction to Acting 3
- MUS 100 Music Appreciation 3

Recommended electives:
- DANC 142 Floricanto Dance .5
- DANC 145 Clinic in Folklorico Zapateados .5
- DANC 148 Folklorico Concert Production 2
- DANC 151 Clinic in Tap .5
- DANC 154 Pointe and Partnering 1
- DANC 155 Pilates-based Body Conditioning .5
- DANC 167 Rhythm Tap .5
- DANC 172 Ballroom Dance .5
- DANC 175 Salsa, Swing and Two-Step .5
- DANC 176 Choreography Field Work 2
- DANC 181 Ensemble Summer Production 2
- DANC 183 Dance Ensemble 3
- DANC 186 Dance Production 2
- MUS 110 Music Fundamentals 2

DENTAL ASSISTING (A.S. & Certificate of Achievement)
Approved by the California Dental Board, 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 gain employment as a Registered Dental Assistant.
- Demonstrate chair side assisting skills and procedural knowledge of restorative and specialty procedures.
- 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 dental assisting state board exam.
- Complete requirements to obtain a certificate in pit and fissure sealants.

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

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>Mandatory</td>
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<tr>
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<tr>
<td>DA 310</td>
<td>Exploring Career Opportunities</td>
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<tr>
<td>2nd Semester (Fall Semester)</td>
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<tr>
<td>DA 314</td>
<td>Introduction to Bio-Dental Science</td>
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<tr>
<td>DA 317</td>
<td>Dental Assisting Theory</td>
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<td>DA 318</td>
<td>Basic Dental Assisting Skills</td>
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<td>DA 319</td>
<td>Administrative Skills for Dental Assisting</td>
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<tr>
<td>3rd Semester (Spring Semester)</td>
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<td>DA 325</td>
<td>Clinical Dental Procedures</td>
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<td>DA 326</td>
<td>Dental Radiography</td>
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<td>DA 327</td>
<td>Dental Screening</td>
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<td>DA 328</td>
<td>Pit and Fissure Sealants</td>
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<td>DA 329</td>
<td>Dental Assisting Practicum</td>
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<td>DA 330</td>
<td>Coronal Polish</td>
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<tr>
<td>DA 332</td>
<td>RDA Law and Ethics</td>
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<td>DA 348</td>
<td>RDA: Job Success Seminar</td>
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<tr>
<td>DA 380</td>
<td>Dental Assisting Skills Lab</td>
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</table>

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 units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
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<th>UNITS</th>
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<tbody>
<tr>
<td>DRMA 101</td>
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<td>DRMA 110</td>
<td>History of World Theatre 1</td>
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<tr>
<td>DRMA 112</td>
<td>Technical Production Lab</td>
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<tr>
<td>DRMA 113</td>
<td>Performance Lab</td>
<td>3</td>
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<tr>
<td>Semester 2</td>
<td>DRMA 102</td>
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<td></td>
<td>Applied Professional Acting II</td>
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<td>DRMA 111</td>
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<td></td>
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<td>DRMA 112</td>
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<td></td>
<td>Technical Production Lab</td>
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<td>3</td>
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<td></td>
<td>Performance Lab</td>
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<td></td>
<td>Performance Lab</td>
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<td></td>
<td>DRMA 120</td>
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<tr>
<td></td>
<td>Advanced Applied Acting I</td>
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<td>Semester 4</td>
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<td>DRMA 113</td>
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<td></td>
<td>Performance Lab</td>
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<td></td>
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Recommended electives:

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<tr>
<td>DANC 120</td>
<td>Ballet</td>
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<tr>
<td>DANC 130</td>
<td>Jazz</td>
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<tr>
<td>DRMA 115</td>
<td>Repertory Theatre</td>
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<tr>
<td>DRMA 118</td>
<td>Introduction to Technical Theatre Lab</td>
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<tr>
<td>DRMA 189</td>
<td>Independent Projects in Drama</td>
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</table>

**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.

The graduate of the certificate program in technical theater will:

- Demonstrate safe, effective techniques and exhibit professional behavior in the support of the production and performance of a professional theatrical production.
- Exhibit a process inclusive of abstract thinking, decision-making and divergent problem solving.
- Communicate through creative expression employing standard theatrical vocabulary and presentational techniques.
- Display a competency in critical reading as it relates to theatrical texts.

Sixty units constitute the certificate.

<table>
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<tr>
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<tbody>
<tr>
<td>DRMA 178</td>
<td>Basic Competencies in Technical Theatre A</td>
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<tr>
<td>DRMA 304</td>
<td>Internship in Theatre Production A</td>
<td>10</td>
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<tr>
<td>Semester 2</td>
<td>DRMA 178</td>
<td>6</td>
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<tr>
<td></td>
<td>Basic Competencies in Technical Theatre B</td>
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<tr>
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<td>DRMA 304</td>
<td>10</td>
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<tr>
<td>Semester 3</td>
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<td>6</td>
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<tr>
<td></td>
<td>Basic Competencies in Technical Theatre C</td>
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<td>DRMA 304</td>
<td>10</td>
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<tr>
<td>Semester 4</td>
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<td>6</td>
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<tr>
<td></td>
<td>Basic Competencies in Technical Theatre D</td>
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<tr>
<td></td>
<td>DRMA 304</td>
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**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 Early Childhood 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 39 units is required for the associate in science degree and certificate.

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<tr>
<th>COURSE NUMBER</th>
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<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>
<tr>
<td>ECS 104</td>
<td>Intro to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECS 105</td>
<td>Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ECS 106</td>
<td>Introduction to Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>ECS 115</td>
<td>Caring for Infants and Toddlers</td>
<td>3</td>
</tr>
<tr>
<td>ECS 116</td>
<td>Multicultural Education/Young Child</td>
<td>3</td>
</tr>
<tr>
<td>ECS 118</td>
<td>Practicum: Preschool</td>
<td>3</td>
</tr>
<tr>
<td>ECS 119</td>
<td>Practicum: Infant/Toddler</td>
<td>3</td>
</tr>
<tr>
<td>ECS 122</td>
<td>Positive Child Guidance</td>
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</table>
Plus a minimum of 6 units selected from the following:

<table>
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<tr>
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<tbody>
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<td>ECS 112</td>
<td>The Preschool Child With Special Needs</td>
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</tr>
<tr>
<td>ECS 113</td>
<td>Early Infant Intervention</td>
<td>3</td>
</tr>
<tr>
<td>ECS 114</td>
<td>Parent/Child Relationships</td>
<td>3</td>
</tr>
<tr>
<td>ECS 117</td>
<td>Teaching the Bilingual/Bicultural Child</td>
<td>3</td>
</tr>
<tr>
<td>ECS 125</td>
<td>Curriculum for School-age Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS 301</td>
<td>Parent Education 1</td>
<td>3</td>
</tr>
<tr>
<td>ECS 302</td>
<td>Parent Education 2</td>
<td>3</td>
</tr>
<tr>
<td>ECS 303</td>
<td>Introduction to Blackboard and Child Development Research</td>
<td>1</td>
</tr>
<tr>
<td>ECS 310</td>
<td>Art for Young Children</td>
<td>.5</td>
</tr>
<tr>
<td>ECS 311</td>
<td>Creating Learning Materials</td>
<td>.5</td>
</tr>
<tr>
<td>ECS 312</td>
<td>Music Activities for Young Children</td>
<td>.5</td>
</tr>
<tr>
<td>ECS 324</td>
<td>Early Literacy Development</td>
<td>1.5</td>
</tr>
<tr>
<td>ECS 325</td>
<td>Literacy: Effective Teaching Strategies</td>
<td>1.5</td>
</tr>
<tr>
<td>FCS/FSN 109</td>
<td>Basic Nutrition for Health</td>
<td>3</td>
</tr>
<tr>
<td>FSN 110</td>
<td>Nutrition Science</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 137</td>
<td>Children's Literature</td>
<td>3</td>
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<tr>
<td>SPAN 101</td>
<td>Elementary Spanish</td>
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Plus a minimum of 3 units selected from the following:

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>ECS 102</td>
<td>Child Health, Safety and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ECS 122</td>
<td>Positive Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td>ECS 303</td>
<td>Introduction to Blackboard and Child Development Research</td>
<td>1</td>
</tr>
<tr>
<td>ECS 324</td>
<td>Early Literacy Development</td>
<td>1.5</td>
</tr>
<tr>
<td>ECS 325</td>
<td>Literacy: Effective Teaching Strategies</td>
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<td>FCS/FSN 109</td>
<td>Basic Nutrition for Health</td>
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<td>FSN 110</td>
<td>Nutrition Science</td>
<td>3</td>
</tr>
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<td>EMS 102</td>
<td>First Aid and Safety Education</td>
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<td>Children's Literature</td>
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<tr>
<td>MUS 110</td>
<td>Music Fundamentals</td>
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EARLY CHILDHOOD STUDIES: ELEMENTARY EDUCATION (A.S. & Certificate of Achievement)

Completion of the Elementary 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 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.

COURSE NUMBER | TITLE | UNITS
--- | --- | ---
Required core courses (39 units):
| ECS 100 | Child Growth and Development | 3 |
| ECS 101 | Child, Family and Community | 3 |
| ECS 104 | Intro to Early Childhood Education | 3 |
| ECS 105 | Observation and Assessment | 3 |
| ECS 106 | Introduction to Curriculum | 3 |
| ECS 116 | Multicultural Education/Young Child | 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 130 | Exploring Teaching | 3 |
| ECS 132 | Child Identity and Learning | 3 |
| ECS/EDUC 133 | Technology for Educators | 3 |

Required core courses (39 units):

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>ECS 100</td>
<td>Child Growth and Development</td>
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</tr>
<tr>
<td>ECS 101</td>
<td>Child, Family and Community</td>
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<tr>
<td>ECS 104</td>
<td>Intro to Early Childhood Education</td>
<td>3</td>
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<td>ECS 105</td>
<td>Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ECS 106</td>
<td>Introduction to Curriculum</td>
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<td>ECS 116</td>
<td>Multicultural Education/Young Child</td>
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<td>Teaching the Bilingual/Bicultural Child</td>
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<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 125</td>
<td>Curriculum for School-Age Children, 6-12 Years</td>
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<td>ECS 130</td>
<td>Exploring Teaching</td>
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<td>ECS 132</td>
<td>Child Identity and Learning</td>
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<tr>
<td>ECS/EDUC 133</td>
<td>Technology for Educators</td>
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Plus a minimum of 3 units selected from the following:

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<tr>
<th>COURSE</th>
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<td>ECS 122</td>
<td>Positive Child Guidance</td>
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</tr>
<tr>
<td>ECS 303</td>
<td>Introduction to Blackboard and Child Development Research</td>
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</tbody>
</table>
### EARLY CHILDHOOD STUDIES: PRESCHOOL/INFANT-TODDLER PROGRAM
#### DIRECTOR (A.S. & Certificate of Achievement)

Completion of the Preschool/Infant Toddler Program would qualify students up to 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 Programs 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
<table>
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<tbody>
<tr>
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<td>ECS 101</td>
<td>Child, Family and Community</td>
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<td>Child Health, Safety and Nutrition</td>
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</tr>
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<td>ECS 104</td>
<td>Intro to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECS 105</td>
<td>Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ECS 106</td>
<td>Introduction to Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>ECS 111</td>
<td>Supervision and Administration</td>
<td>3</td>
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<td>ECS 115</td>
<td>Caring for Infants and Toddlers</td>
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<td>ECS 118</td>
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<tr>
<td>ECS 119</td>
<td>Practicum: Infant Toddler</td>
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<tr>
<td>ECS 120</td>
<td>Mentor Teacher and Adult Supervision</td>
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<tr>
<td>ECS 320</td>
<td>Administration: Staff Leadership</td>
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<td>ECS 321</td>
<td>Administration: Professional Ethics</td>
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<tr>
<td>ECS 322</td>
<td>Administration: Parents as Partners</td>
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</table>

Plus a minimum of 3 units selected from the following:

- ACCT 317 Bookkeeping
- BUS 106 Small Business Management
- BUS 107 Human Relations in Business
- ECS 112 The Preschool Child with Special Needs
- ECS 113 Early Infant Intervention
- ECS 114 Parent/Child Relationships
- ECS 117 Teaching the Bilingual/Bicultural Child
- ECS 122 Positive Child Guidance
- ECS 121 Family Child Care Business

### 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.

#### COURSE
<table>
<thead>
<tr>
<th>NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>ASL 120</td>
<td>American Sign Language</td>
<td>3</td>
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<tr>
<td>ECS 100</td>
<td>Child Growth and 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>
<tr>
<td>ECS 104</td>
<td>Intro to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECS 105</td>
<td>Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ECS 106</td>
<td>Introduction to Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>ECS 112</td>
<td>The Preschooler with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>ECS 113</td>
<td>Early Infant Intervention</td>
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</tr>
<tr>
<td>ECS 118</td>
<td>Practicum: Preschool</td>
<td>3</td>
</tr>
<tr>
<td>ECS 119</td>
<td>Practicum: Infant/Toddler</td>
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<tr>
<td>ECS 122</td>
<td>Positive Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td>LS 312</td>
<td>Adapted Computer Skills</td>
<td>2</td>
</tr>
</tbody>
</table>

Plus a minimum of 3 units selected from the following:

- ECS/EDUC 133 Technology for Educators
- ECS 303 Introduction to Blackboard and Child Development Research
- ECS 310 Art for Young Children
- ECS 311 Creating Learning Materials
- ECS 312 Music Activities for Young Children
- ECS 324 Early Literacy Development
- ECS 325 Literacy: Effective Teaching Strategies
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 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 22 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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</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>1.5</td>
</tr>
<tr>
<td>and</td>
<td>EL 113</td>
<td>1.5</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 122</td>
<td>3</td>
</tr>
<tr>
<td>and</td>
<td>EL 123</td>
<td>2</td>
</tr>
<tr>
<td>EL 125</td>
<td>Digital Devices and Circuits</td>
<td>3</td>
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<tr>
<td>EL 126</td>
<td>Digital Devices and Circuits Lab</td>
<td>2</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 146</td>
<td>Electronic Product Design, Fabrication &amp; Documentation</td>
<td>2</td>
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</tbody>
</table>

DIGITAL SYSTEMS TECHNICIAN (Certificate of Achievement)
A major of 25 units is required for the certificate.

<table>
<thead>
<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>
</tr>
<tr>
<td>or</td>
<td>EL 111</td>
<td>1.5</td>
</tr>
<tr>
<td>and</td>
<td>EL 113</td>
<td>1.5</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 122</td>
<td>3</td>
</tr>
<tr>
<td>and</td>
<td>EL 123</td>
<td>2</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>
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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>
<td>2</td>
</tr>
<tr>
<td>EL 146</td>
<td>Electronic Product Design, Fabrication &amp; Documentation</td>
<td>2</td>
</tr>
</tbody>
</table>

ELECTRONIC ENGINEERING TECHNOLOGY (A.S.)
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>
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<tbody>
<tr>
<td>CS</td>
<td>Any 3 unit programming course</td>
<td>3</td>
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<tr>
<td>CHEM 120</td>
<td>Introductory Chemistry</td>
<td>4</td>
</tr>
<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>1.5</td>
</tr>
<tr>
<td>and</td>
<td>EL 113</td>
<td>1.5</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 122</td>
<td>3</td>
</tr>
<tr>
<td>and</td>
<td>EL 123</td>
<td>2</td>
</tr>
<tr>
<td>EL 125</td>
<td>Digital Devices and Circuits</td>
<td>3</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>
</tr>
<tr>
<td>EL 136</td>
<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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</tr>
<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>
<td>4</td>
</tr>
</tbody>
</table>
### 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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL 105</td>
<td>PC Preventive Maintenance and Upgrading</td>
<td>3</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>
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<tr>
<td>EL 108</td>
<td>Networking Essentials 3</td>
<td>2</td>
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<tr>
<td>EL 109</td>
<td>Networking Essentials 4</td>
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</tr>
<tr>
<td>EL 118</td>
<td>Fundamentals of DC &amp; AC Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or EL 111</td>
<td>Fundamentals of DC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>EL 113</td>
<td>Fundamentals of AC Circuit Analysis Lab</td>
<td>2</td>
</tr>
<tr>
<td>or EL 112</td>
<td>Fundamentals of DC Circuit Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>EL 119</td>
<td>Fundamentals of AC Circuit Analysis Lab</td>
<td>1</td>
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</table>

Plus a minimum of 3 units selected from the following:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<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>
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</tbody>
</table>

Plus a minimum of 5 units selected from the following:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<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>or 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 121</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>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>

### 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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL 105</td>
<td>PC Preventive Maintenance and Upgrading</td>
<td>3</td>
</tr>
<tr>
<td>EL 118</td>
<td>Fundamentals of DC &amp; AC Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or EL 111</td>
<td>Fundamentals of DC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>and EL 113</td>
<td>Fundamentals of AC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>EL 119</td>
<td>Fundamentals of DC &amp; AC Circuit Analysis Lab</td>
<td>2</td>
</tr>
<tr>
<td>or EL 112</td>
<td>Fundamentals of DC Circuit Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>and EL 114</td>
<td>Fundamentals of AC Circuit Analysis Lab</td>
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<tr>
<td>EL 122</td>
<td>Electronic Devices and Circuits</td>
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</tr>
<tr>
<td>EL 123</td>
<td>Electronic Devices and Circuits Lab</td>
<td>2</td>
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<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>
</tbody>
</table>

### ELECTRONICS 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.
<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL/CEL/ET 104</td>
<td>Introduction to Robotics &amp; Mechatronics</td>
<td>3</td>
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<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</td>
<td>3</td>
</tr>
<tr>
<td>EL 125</td>
<td>Digital Devices and Circuits Lab</td>
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<td>CS 142</td>
<td>Computer Fundamentals in Digital Design Lab</td>
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</tr>
<tr>
<td>EL 126</td>
<td>Digital Devices and Circuits Lab</td>
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</tr>
<tr>
<td>MT 330</td>
<td>Print Reading and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 306</td>
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<tr>
<td>EL 146</td>
<td>Electronic Product Design, Fabrication &amp; Documentation</td>
<td>2</td>
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<tr>
<td>MT 109</td>
<td>Survey of Machining</td>
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<tr>
<td>ET 140</td>
<td>Engineering Drawing</td>
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<tr>
<td>SP 128</td>
<td>Materials and Processes</td>
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Plus a minimum of 15 units selected from the following:

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<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>CS 122</td>
<td>Fundamentals of Programming 2</td>
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</tr>
<tr>
<td>CS 137</td>
<td>Microcomputer Architecture and Software</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/CS 105</td>
<td>PC Preventive Maintenance &amp; Upgrade</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EL/CS 320</td>
<td></td>
</tr>
<tr>
<td>EL/CS 106</td>
<td>Networking Essentials 1</td>
<td>3</td>
</tr>
<tr>
<td>EL/CS 107</td>
<td>Networking Essentials 2</td>
<td>3</td>
</tr>
<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 and Industrial Control Design</td>
<td>3</td>
</tr>
<tr>
<td>EL/CEL/ET 133</td>
<td>Transducers and Sensors</td>
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<td>EL 135</td>
<td>Electronic Measurement &amp; Instrumentation</td>
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</tr>
<tr>
<td>EL 136</td>
<td>Electronic Measurement &amp; Instrumentation Lab</td>
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<tr>
<td>EL/ET 138</td>
<td>Introduction to Motorola’s 68000 Microprocessor Family</td>
<td>3</td>
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<tr>
<td>EL/CEL/ET 139</td>
<td>Electrical Power, Motors and Controls</td>
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<tr>
<td>EL/CEL/ET 162</td>
<td>Fluid Power and Control</td>
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<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>PHYS 100</td>
<td>Concepts in Physics</td>
<td>3</td>
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<tr>
<td>or</td>
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<td>PHYS 110</td>
<td>Introductory Physics</td>
<td>3</td>
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<td>PHSC 111</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>SP 104</td>
<td>Quality Management Control and Safety</td>
<td>3</td>
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<tr>
<td>WLDT 106</td>
<td>Beginning Welding</td>
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<tr>
<td>WLDT 107</td>
<td>Advanced Welding</td>
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<td>WLDT 307</td>
<td>G.M.A.W. Welding</td>
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<td>or</td>
<td>WLDT 308</td>
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<td>WLDT 308</td>
<td>T.I.G. Welding</td>
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</tr>
<tr>
<td>WLDT 315</td>
<td>Metal Fabrication</td>
<td>4</td>
</tr>
</tbody>
</table>

**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 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 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 30 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 310</td>
<td>Hazardous Materials First Responder</td>
<td>1.5</td>
</tr>
<tr>
<td>HUSV 148</td>
<td>Coping with Emergency Response</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 12 units selected from the following:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<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:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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>
</tbody>
</table>
CERTIFICATE OF ACHIEVEMENT

Successful completion of the program, the student is eligible to sit for the practical and written examinations of the Paramedic National Registry, which is recognized by California for state licensure as an Emergency Medical Technician-Paramedic.

Twenty-nine units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 303</td>
<td>Paramedic Prep</td>
<td>1.5</td>
</tr>
<tr>
<td>EMS 333</td>
<td>Paramedic Theory</td>
<td>10</td>
</tr>
<tr>
<td>EMS 343</td>
<td>Paramedic Clinical Laboratory</td>
<td>7.5</td>
</tr>
<tr>
<td>EMS 353</td>
<td>Paramedic Field Internship</td>
<td>10</td>
</tr>
</tbody>
</table>

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 (MOI) 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.

<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>1</td>
</tr>
<tr>
<td>EMS 302</td>
<td>EMS Academy 1B (Advanced)</td>
<td>7</td>
</tr>
</tbody>
</table>

EMERGENCY MEDICAL SERVICES - EMERGENCY MEDICAL TECHNICIAN 1 (BASIC) REFRESHER (Certificate of Accomplishment)

The graduate of the certificate program in Emergency Medical Technician 1 (Basic) Refresher will:

- Describe the role and responsibilities of the 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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 301</td>
<td>Emergency Medical Technician 1 (Basic)</td>
<td>5</td>
</tr>
<tr>
<td>EMS 306</td>
<td>CPR for Healthcare Providers</td>
<td>.5</td>
</tr>
</tbody>
</table>
DEGREES & CERTIFICATES

- 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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 401</td>
<td>Emergency Medical Technician 1 (Basic) Refresher</td>
<td>1.5</td>
</tr>
<tr>
<td>or</td>
<td>EMT 1 (Basic Skills Refresher Module A)</td>
<td>.5</td>
</tr>
<tr>
<td>EMS 410</td>
<td>EMT 1 (Basic Skills Refresher Module B)</td>
<td>.5</td>
</tr>
<tr>
<td>EMS 411</td>
<td>EMT 1 (Basic Skills Refresher Module C)</td>
<td>.5</td>
</tr>
<tr>
<td>EMS 412</td>
<td>EMT 1 (Basic Skills Refresher Module D)</td>
<td>.5</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 309</td>
<td>Basic Trauma Life Support</td>
<td>1</td>
</tr>
<tr>
<td>EMS 321</td>
<td>Advanced Cardiac Life Support</td>
<td>1</td>
</tr>
<tr>
<td>EMS 322</td>
<td>Pediatric Advanced Life Support</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>EMS 359 Pediatric Education/Prehospital Professional</td>
<td>1</td>
</tr>
</tbody>
</table>

**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 prior to EMTs and/or paramedics arriving.
- Develop, demonstrate and evaluate treatment plans for patients with various forms of trauma and illness.

One-half unit constitutes the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 461</td>
<td>First Responder Update</td>
<td>.5</td>
</tr>
</tbody>
</table>

**ENGINEERING (A.A.)**

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 from 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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required core courses (20 units):</td>
<td></td>
<td></td>
</tr>
<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>PHYS 162</td>
<td>Engineering Physics 2</td>
<td>5</td>
</tr>
<tr>
<td>or</td>
<td>PHYS 163 Engineering Physics 3</td>
<td>5</td>
</tr>
<tr>
<td>Plus a minimum of 6 units selected from Category A and 9 units selected from Category A and/or B.</td>
<td></td>
<td></td>
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</tbody>
</table>

**Category A - Engineering**

| ENGR 152 | Statics | 3 |
| ENGR 154 | Dynamics | 3 |
| ENGR 156 | Strength of Materials | 4 |
| ENGR 161 | Materials Science | 3 |
| ENGR 162 | Materials Science Lab | 1 |
| ENGR 170 | Electric Circuit Analysis | 3 |
| ENGR 171 | Electric Circuit Lab | 1 |
ENGR 172 Circuits and Devices 4
and
ENGR 173 Circuits and Devices Lab 1

Category B - Engineering Support
CHEM 151 General Chemistry 2 5
or
CS 121 Fundamentals of Programming 1 4
or
CS 175 Object-Oriented Programming 3
CS 122 Fundamentals of Programming 2 2
CS 123 Fundamentals of Programming 3 2
CS 141 Computer Fundamentals in Digital Design 3
ET 140 Engineering Drawing 3
ET 145 Advanced Engineering Drawing 3
MATH 183 Multivariable Calculus 5
MATH 184 Linear Algebra/Diff Equations 5
PHYS 162 Engineering Physics 2 5
or
PHYS 163 Engineering Physics 3 5

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.

ENGINEERING TECHNOLOGY (A.S.)
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.

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>CS 121</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>

ENGINEERING TECHNOLOGY: CIVIL (A.S.)
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.

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>ARCH 131</td>
<td>Materials of Construction 1</td>
<td>3</td>
</tr>
<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>
</tr>
<tr>
<td>GEOL 100</td>
<td>Physical Geology</td>
<td>4</td>
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</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 121</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>Digital Devices and Circuits</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Computer Fundamentals in Digital Design Lab</td>
<td>2</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>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 AC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>EL 113</td>
<td>Fundamentals of AC Circuit Analysis Lab</td>
<td>1</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>Layout and Fabrication Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>SP 128</td>
<td>Materials and Processes</td>
<td>3</td>
</tr>
</tbody>
</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 122</td>
<td>Fundamentals of Programming 2</td>
<td>3</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 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/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>
</tbody>
</table>
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, individual student, the academic community and society at large.
understanding of our cultural traditions, to provide a breadth of reading and writing to enhance communication skills, to deepen and varied education in these vital areas of literacy—serving the skills are essential for everyone. The English major offers a rich and varied background in the mechanical areas of drawing, while also becoming a skilled operator of a CADD system.

Fifteen units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL/CEL/ET 133</td>
<td>Transducers and Sensors</td>
<td>3</td>
</tr>
<tr>
<td>EL/CS 105</td>
<td>PC Preventive Maintenance &amp; Upgrade</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EL/CS 320 A+ Certification</td>
<td>2</td>
</tr>
<tr>
<td>EL/CS 106</td>
<td>Networking Essentials 1</td>
<td>3</td>
</tr>
<tr>
<td>EL/CS 107</td>
<td>Networking Essentials 2</td>
<td>3</td>
</tr>
<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>
<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>PHSC 111</td>
<td>Matter, Energy and Molecules</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>PHYS 100 Concepts in Physics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>PHYS 110 Introductory Physics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>SP 104 Quality Management Control and Safety</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 106 Beginning Welding</td>
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</tr>
<tr>
<td>or</td>
<td>WLDT 107 Advanced Welding</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 307 G.M.A.W. Welding</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 308 T.I.G. Welding</td>
<td>3</td>
</tr>
<tr>
<td>WLDT 315</td>
<td>Metal Fabrication</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

Fifteen units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</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>
</tr>
</tbody>
</table>

Required core courses (12 units):

Plus a minimum of 3 units selected from the following:

| ARCH 111     | Architectural Graphics               | 3     |
| ARCH 121     | Architectural Drawing 1              | 4     |
| ARCH 122     | Architectural Drawing 2              | 4     |
| ET 189       | Independent Projects in Engineering Technology | 3 |

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 reading and writing to enhance communication skills, to deepen and varied education in these vital areas of literacy—serving the skills are essential for everyone. The English major offers a rich and varied background in the mechanical areas of drawing, while also becoming a skilled operator of a CADD system.

Fifteen units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL/CEL/ET 133</td>
<td>Transducers and Sensors</td>
<td>3</td>
</tr>
<tr>
<td>EL/CS 105</td>
<td>PC Preventive Maintenance &amp; Upgrade</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EL/CS 320 A+ Certification</td>
<td>2</td>
</tr>
<tr>
<td>EL/CS 106</td>
<td>Networking Essentials 1</td>
<td>3</td>
</tr>
<tr>
<td>EL/CS 107</td>
<td>Networking Essentials 2</td>
<td>3</td>
</tr>
<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>
<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>PHSC 111</td>
<td>Matter, Energy and Molecules</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>PHYS 100 Concepts in Physics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>PHYS 110 Introductory Physics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>SP 104 Quality Management Control and Safety</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 106 Beginning Welding</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 107 Advanced Welding</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 307 G.M.A.W. Welding</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WLDT 308 T.I.G. Welding</td>
<td>3</td>
</tr>
<tr>
<td>WLDT 315</td>
<td>Metal Fabrication</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

Fifteen units constitute the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</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>
</tr>
</tbody>
</table>

Required core courses (12 units):

Plus a minimum of 3 units selected from the following:

| ARCH 111     | Architectural Graphics               | 3     |
| ARCH 121     | Architectural Drawing 1              | 4     |
| ARCH 122     | Architectural Drawing 2              | 4     |
| ET 189       | Independent Projects in Engineering Technology | 3 |

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.

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.
- 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/waster 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):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL</td>
<td>Any four-unit biology course</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 120</td>
<td>Humans and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>CHEM</td>
<td>Any four-unit chemistry course</td>
<td>4</td>
</tr>
<tr>
<td>ENVT 101</td>
<td>Introduction to Environmental Hazardous Materials</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 150</td>
<td>Hazardous Materials-General Site Worker</td>
<td>2</td>
</tr>
<tr>
<td>ENVT 151</td>
<td>Hazardous Materials-Site Supervisor</td>
<td>1</td>
</tr>
<tr>
<td>ENVT 152</td>
<td>Identification &amp; Assessment of Hazardous Materials</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 153</td>
<td>Industrial Safety</td>
<td>1</td>
</tr>
<tr>
<td>ENVT 154</td>
<td>Monitoring and Sampling</td>
<td>2</td>
</tr>
<tr>
<td>ENVT 155</td>
<td>Respiratory Protection-Administration</td>
<td>0.5</td>
</tr>
<tr>
<td>ENVT 156</td>
<td>First Responder Operational</td>
<td>1</td>
</tr>
<tr>
<td>ENVT 157</td>
<td>First Aid for Haz Mat Workers</td>
<td>1.5</td>
</tr>
<tr>
<td>ENVT 158</td>
<td>Hazardous Waste Minimization and Emissions Reduction</td>
<td>1</td>
</tr>
<tr>
<td>ENVT 159</td>
<td>Hazardous Materials and Hazardous Waste Permitting</td>
<td>1</td>
</tr>
<tr>
<td>ENVT 160</td>
<td>Air and Water Pollution Permitting and Compliance</td>
<td>2</td>
</tr>
</tbody>
</table>

For degree purposes, the natural science general education requirement will have been met by the major.

**Recommended elective:**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVT 199</td>
<td>Special Topics in ENVT</td>
</tr>
</tbody>
</table>

**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):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVT 150</td>
<td>Hazardous Materials-General Site Worker</td>
<td>2</td>
</tr>
<tr>
<td>ENVT 151</td>
<td>Hazardous Materials-Site Supervisor</td>
<td>1</td>
</tr>
<tr>
<td>ENVT 152</td>
<td>Identification &amp; Assessment of Hazardous Materials</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 153</td>
<td>Industrial Safety</td>
<td>1</td>
</tr>
<tr>
<td>ENVT 154</td>
<td>Monitoring and Sampling</td>
<td>2</td>
</tr>
<tr>
<td>ENVT 155</td>
<td>Respiratory Protection-Administration</td>
<td>0.5</td>
</tr>
<tr>
<td>ENVT 156</td>
<td>First Responder Operational</td>
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<tr>
<td>ENVT 159</td>
<td>Hazardous Materials and Hazardous Waste Permitting</td>
<td>1</td>
</tr>
<tr>
<td>ENVT 160</td>
<td>Air and Water Pollution Permitting and Compliance</td>
<td>2</td>
</tr>
</tbody>
</table>

**FAMILY AND CONSUMER SCIENCES GENERAL (A.S.)**

The graduate of the AS program in Family Consumer Sciences-General Transfer 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):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS/CA 120</td>
<td>Principles of Foods 1</td>
<td>4</td>
</tr>
<tr>
<td>FCS/CA 123</td>
<td>Principles of Foods 2</td>
<td>2</td>
</tr>
<tr>
<td>FCS 130</td>
<td>Consumer and Family Finance</td>
<td>3</td>
</tr>
<tr>
<td>FCS 139</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>FCS 140 A</td>
<td>Apparel Construction</td>
<td>2</td>
</tr>
<tr>
<td>FSN 110</td>
<td>Nutrition Science</td>
<td>3</td>
</tr>
</tbody>
</table>

3 units selected from the following based on the university you are transferring to:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 138</td>
<td>Personal and Professional Apparel Selection</td>
</tr>
<tr>
<td>PSY 118</td>
<td>Human Development-Lifespan</td>
</tr>
</tbody>
</table>

3 units selected from the following based on the university you are transferring to:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS 100</td>
<td>Early Child Development</td>
</tr>
<tr>
<td>ECS 101</td>
<td>Child, Family, and Community</td>
</tr>
</tbody>
</table>
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 and merchandising. 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.
- Apply clothing design principles to construct and present a fashion design.
- Differentiate historic fashion concepts with current design trends and present portfolio.

A major of 19 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>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 120</td>
<td>Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>FCS 137</td>
<td>Fashion Industry and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FCS 138</td>
<td>Professional and Personal Apparel Selection</td>
<td>3</td>
</tr>
<tr>
<td>FCS 139</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>FCS 140 AB</td>
<td>Apparel Construction</td>
<td>4</td>
</tr>
<tr>
<td>FCS 144</td>
<td>Historic Fashion/Costume</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended electives:
- FCS 131 Life Management 3
- FCS 199 Special Topics in Family and Consumer Science .5-3 (related to Fashion Studies)

A major of 16 units is required for the certificate.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<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 138</td>
<td>Professional and Personal Apparel Selection</td>
<td>3</td>
</tr>
<tr>
<td>FCS 139</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>FCS 144</td>
<td>Historic Fashion/Costume</td>
<td>3</td>
</tr>
<tr>
<td>FCS 149</td>
<td>Cooperative Work Experience: Occupational</td>
<td>1</td>
</tr>
</tbody>
</table>

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 store buyer or manager, interiors consultant, 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.
- Apply textile characteristics for sensory appeal and present project.
- 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>
</tr>
</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>
</tbody>
</table>

Plus a minimum of 6 units selected from the following:
- ART 110 Design 1 3
- ART 108 Design 1 on the Computer 3
- ART 112 Design Color Theory 3
### FILM AND VIDEO PRODUCTION

**FILM AND VIDEO PRODUCTION**

**Course Requirements**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 101</td>
<td>Film as Art and Communication</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>FILM 107 History of World Cinema</td>
<td>3</td>
</tr>
<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>MMAC 125</td>
<td>Computer Video Editing</td>
<td>2</td>
</tr>
<tr>
<td>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>

Plus a minimum of 13 units selected from the following:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMAC 115</td>
<td>Introduction to Animation</td>
<td>3</td>
</tr>
<tr>
<td>FILM 102</td>
<td>Hollywood and the American Film</td>
<td>3</td>
</tr>
<tr>
<td>FILM 103</td>
<td>Contemporary Latin American Cinema</td>
<td>3</td>
</tr>
<tr>
<td>FILM 106</td>
<td>Film and Television Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>FILM 112</td>
<td>Studio Production</td>
<td>4</td>
</tr>
<tr>
<td>FILM 113</td>
<td>Producing and Directing Lab</td>
<td>2</td>
</tr>
<tr>
<td>FILM 120</td>
<td>Introduction to Sound Recording &amp; Mixing</td>
<td>3</td>
</tr>
<tr>
<td>FILM 121</td>
<td>Sound Production Techniques</td>
<td>3</td>
</tr>
<tr>
<td>FILM 123</td>
<td>Directing for the Camera</td>
<td>2</td>
</tr>
<tr>
<td>MMAC 127</td>
<td>DVD Design and Production</td>
<td>3</td>
</tr>
<tr>
<td>FILM 189</td>
<td>Independent Projects</td>
<td>1-3</td>
</tr>
<tr>
<td>FILM 199</td>
<td>Special Topics in Film</td>
<td>1-2</td>
</tr>
<tr>
<td>FILM 386</td>
<td>Film Festival Production</td>
<td>2</td>
</tr>
</tbody>
</table>

**Graduation Requirements**

- A major of 36 units is required for the associate in science degree.

### FIRE TECHNOLOGY

**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.
- 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; 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 mathematic 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.

### Course Requirements

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT 101</td>
<td>Fire Protection Organization</td>
<td>3</td>
</tr>
<tr>
<td>FT 102</td>
<td>Fire Prevention Technology</td>
<td>3</td>
</tr>
<tr>
<td>FT 103</td>
<td>Fire Protection Equipment and Systems</td>
<td>3</td>
</tr>
<tr>
<td>FT 104</td>
<td>Building Construction for Fire Protection</td>
<td>3</td>
</tr>
<tr>
<td>FT 105</td>
<td>Fire Behavior and Combustion</td>
<td>3</td>
</tr>
<tr>
<td>FT 306</td>
<td>Hazardous Materials</td>
<td>3</td>
</tr>
<tr>
<td>FT 307</td>
<td>Firefighter Academy 1A</td>
<td>6</td>
</tr>
<tr>
<td>FT 308</td>
<td>Firefighter Academy 1B</td>
<td>6</td>
</tr>
<tr>
<td>EMS 301</td>
<td>Emergency Medical Technician 1</td>
<td>5</td>
</tr>
<tr>
<td>FT 320</td>
<td>Fire Command 1A</td>
<td>2</td>
</tr>
<tr>
<td>FT 321</td>
<td>Fire Command 1B</td>
<td>2</td>
</tr>
<tr>
<td>FT 322</td>
<td>Fire Prevention 1A</td>
<td>2</td>
</tr>
<tr>
<td>FT 323</td>
<td>Fire Prevention 1B</td>
<td>2</td>
</tr>
</tbody>
</table>

Plus a minimum of 15 units selected from the following:
The graduate of the AS or certificate program in addiction studies 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.

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 major 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 substance use disorders or addiction studies). The graduate of the AS or certificate program in Human Services will:

- Possess knowledge and skills that will enable him/her to 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, nonpossessive 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 breached. 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>
</tr>
</thead>
<tbody>
<tr>
<td>Required core courses (12 units):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FT 307</td>
<td>Firefighter Academy 1A</td>
<td>6</td>
</tr>
<tr>
<td>FT 308</td>
<td>Firefighter Academy 1B</td>
<td>6</td>
</tr>
<tr>
<td>Note: A grade of “C” or better in both courses is required for certification.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 (CAADE) and provides the educational components necessary to become a Certified Addiction Treatment Specialist through CAADE 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, nonpossessive 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.

### COURSE NUMBER TITLE UNITS

**Required core courses (39 units):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<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>
</tr>
<tr>
<td>HUSV 103</td>
<td>Basic Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 104</td>
<td>Group Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 105</td>
<td>Fieldwork Supervision</td>
<td>2</td>
</tr>
<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/</td>
<td>SOC 106/</td>
<td>Alcohol, Drugs, and Addiction</td>
</tr>
<tr>
<td>PSY 106</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 Fieldwork</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>

**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>FCS/FSN 112</td>
<td>Nutrition, Weight Management, and Eating Disorders</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 107</td>
<td>Serving Culturally Diverse Clients</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 113</td>
<td>Women and Addiction</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>HUSV 122</td>
<td>States of Consciousness</td>
<td>3</td>
</tr>
</tbody>
</table>

### HUMAN SERVICES - FAMILY STUDIES

**Certificate of Achievement**

This certificate program is designed for individuals who work with or are concerned about families and/or children in contemporary society. Students will receive both a solid grounding in family related issues and practical guidelines and skills necessary for effective interventions. This program of study is especially useful for individuals interested in becoming parenting educators.

The graduate of the Certificate Program in Family Studies will:

- Possess 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. 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 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 manifest the core conditions of helping relationships, including empathy, nonpossessive 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.

Thirty-one units constitute the certificate.

### COURSE NUMBER TITLE UNITS

**Required core courses (25 units):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<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>
</tr>
<tr>
<td>HUSV 103</td>
<td>Basic Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 105</td>
<td>Fieldwork Supervision</td>
<td>2</td>
</tr>
<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</td>
<td>Alcohol, Drugs, and Addiction</td>
<td>3</td>
</tr>
<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 Fieldwork</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>

**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>ECS 101</td>
<td>Child, Family and Community</td>
<td>3</td>
</tr>
<tr>
<td>ECS 114</td>
<td>Parent/Child Relationships</td>
<td>3</td>
</tr>
<tr>
<td>FCS/FSN 109</td>
<td>Basic Nutrition for Health</td>
<td>3</td>
</tr>
<tr>
<td>FCS 130</td>
<td>Consumer and Family Finance</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 107</td>
<td>Serving Culturally Diverse Clients</td>
<td>3</td>
</tr>
<tr>
<td>HUSV 189</td>
<td>Independent Projects in Human Services</td>
<td>1-3</td>
</tr>
<tr>
<td>SOC 110</td>
<td>Personal and Family Relationships in the 21st Century</td>
<td>3</td>
</tr>
</tbody>
</table>
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 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 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, nonpossessive 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

<table>
<thead>
<tr>
<th>Required core courses (44-46 units):</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 131 Life Management 3</td>
</tr>
<tr>
<td>HU SER 101 Becoming a Helping Professional 3</td>
</tr>
<tr>
<td>HU SER 102 Case Management of Diverse Clients 3</td>
</tr>
<tr>
<td>HU SER 103 Basic Counseling Skills 3</td>
</tr>
<tr>
<td>HU SER 104 Group Dynamics 3</td>
</tr>
<tr>
<td>HU SER 106 Family Systems, Addiction and Trauma 3</td>
</tr>
<tr>
<td>HU SER 105 Fieldwork Supervision 2</td>
</tr>
<tr>
<td>and/or</td>
</tr>
<tr>
<td>and/or</td>
</tr>
<tr>
<td>HU SER 141 Fieldwork Supervision – Co-occurring Disorders 2</td>
</tr>
<tr>
<td>HU SER 108 Crisis Intervention Strategies 3</td>
</tr>
<tr>
<td>HUSV 111 Addiction Treatment and Recovery 3</td>
</tr>
<tr>
<td>HUSV/PSY 112 Drugs, the Brain and the Body 3</td>
</tr>
<tr>
<td>HUSV 130 Addiction Studies Fieldwork 4</td>
</tr>
<tr>
<td>HUSV 140 Co-occurring Disorders Fieldwork 2</td>
</tr>
<tr>
<td>HUSV/PSY 142 Co-occurring Disorders: Concepts and Assessment 3</td>
</tr>
<tr>
<td>HUSV/PSY 143 Co-occurring Disorders: Management and Treatment 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 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 Service 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, nonpossessive 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.

Fifteen units constitute the certificate.
The articulated transfer major will prepare students for further studies toward a baccalaureate degree in international studies or related fields.

The graduate of the AA program in liberal arts (non-transfer) will:

- 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 31 units is required for the associate in liberal arts degree.

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.

Understand how globalization is affecting multiculturalism and the processes causing contemporary cultures to change.

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 31 units is required for the associate in liberal arts degree.

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 – 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 Allen 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 – 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.
- 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 and 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 arts & humanities (transfer and non-transfer) 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.

Eighteen units with 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
GRPHI 110
MUS 100, 101, 102, 104, 106, 110
PHTO 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, 138
HUM 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 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 in mathematics & sciences (transfer and non-transfer) will:
- Demonstrate an ability to think logically and critically in solving problems; explaining conclusions and evaluating, supporting or critiquing the thinking matters 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.

Eighteen units with a minimum of one course in biological science, one course in physical science and one course in mathematics

Biological Sciences
ANIM 101, 110
BIOL 100, 120, 121, 124, 125, 128, 132, 135, 150, 154, 155
ENVS 101

Mathematics
MATH 100, 105, 121, 123, 131, 135, 141, 181, 182, 183, 184

Physical Sciences
ASTR 100
CHEM 110, 120, 150, 151
ENVS 102

PHYS 101

LIBERAL ARTS –SOCIAL & BEHAVIORAL SCIENCES (A.A.)

Courses emphasize the perspective, concepts, theories and methodologies of the disciplines typically found in the vast variety of disciplines that comprise study in the social and behavioral sciences. Students will study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate.

The graduate of the AA program in social & behavioral sciences (transfer and non-transfer) will:
- Understand human behavior in relation to human social, political and economic institutions.
- 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.
- Understand ways people have acted in response to their societies.

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

IS 141

Geography
GEOG 102, 103, 105

History
HIST 103, 107, 108, 118, 119, 120

HUM 103

Political Science
POLS 101, 103, 104
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.

### Associate Degree General Education Requirements

Students are required to complete the following courses within the Allan Hancock College associate degree general education requirements as part of the Liberal Studies – Elementary Teacher Preparation program.

**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)

**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 103 (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 associate of science degree 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 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.

**COURSE NUMBER**

<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>Machine Tool 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>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 315 ABCD</td>
<td>Industrial Machining</td>
<td>4</td>
</tr>
<tr>
<td>MT 123</td>
<td>Production Machining</td>
<td>4</td>
</tr>
<tr>
<td>MT 124</td>
<td>General Machining</td>
<td>4</td>
</tr>
<tr>
<td>MT 125</td>
<td>Maintenance Machining</td>
<td>4</td>
</tr>
</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 associate in science degree 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 identify increases in productivity through improved output and quality.
- 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.

### COURSE NUMBER TITLE UNITS

Required core courses (17 units):

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MT 109</td>
<td>Survey of Machining</td>
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<tr>
<td>MT 110</td>
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</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>WLD T 107</td>
<td>Advanced Welding</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus 16 units in the following area of specialization:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 315 ABCD</td>
<td>Industrial Machining</td>
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</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>
</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 equipment maintenance and repair.

The graduate of the associate in science degree 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.

• 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.

### COURSE NUMBER TITLE UNITS

Required core courses (11 units):

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 109</td>
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<td>4</td>
</tr>
<tr>
<td>MT 110</td>
<td>Machine Tool Practices</td>
<td>4</td>
</tr>
<tr>
<td>MT 330</td>
<td>Print Reading and Interpretation</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus 16 units in the following area of specialization:

<table>
<thead>
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<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 315 ABCD</td>
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<tr>
<td></td>
<td>Production Machining</td>
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<tr>
<td></td>
<td>General Machining</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Maintenance Machining</td>
<td>4</td>
</tr>
</tbody>
</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.

• Utilize a variety of problem-solving techniques and strategies to identify, analyze and solve problems from arithmetic through calculus

• Employ quantitative methods from arithmetic, algebra, geometry or statistics to solve problems.

• 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.

### COURSE NUMBER TITLE UNITS

Required core courses (27 units):

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 121</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>Differential Equations with Linear Algebra</td>
<td>5</td>
</tr>
</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:

• Interpret and draw inferences from mathematical models such as formulas, graphs, tables and schematics.

• Represent mathematical information symbolically, visually, numerically, verbally and in writing.

• Utilize a variety of problem-solving 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 30 units is required for the associate in arts degree.

### COURSE NUMBER TITLE UNITS

Required core courses (25 units):

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<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>Differential Equations with Linear Algebra</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 161</td>
<td>Engineering Physics 1</td>
<td>5</td>
</tr>
</tbody>
</table>
The medical assisting program consists of a medical assisting certificate and an optional medical billing and coding certificate. 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 certification, 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.
- 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 competently carry out the role of a medical assistant.

Thirty-one units constitute the certificate.

**MUS 101** Music History-Ancient to Baroque 3
**MUS 102** Music History-Classical to 20th Century 3
**MUS 111** Comprehensive Music Theory 1 4
**MUS 112** Comprehensive Music Theory 2 4
**MUS 113** Comprehensive Music Theory 3 4
**MUS 114** Comprehensive Music Theory 4 4
**MUS 120** Beginning Piano (+) 1
**MUS 121** Intermediate Piano (+) 1
**MUS 130** Mixed Ensemble 1
**MUS 132** Masterworks Chorale 1
**MUS 133** Chamber Voices 1
**MUS 137** Concert Chorale 1
**MUS 140** Symphonic Band 1
**MUS 143** Jazz Band 1
**MUS 144** Jazz Improvisation 1
**MUS 145** Big Band Jazz 1
**MUS 150** Instrumental Ensemble 1
**MUS 151** Concert Band 1 1

**MEDICAL ASSISTING - MEDICAL BILLING & CODING (Certificate of Accomplishment)**

The medical assisting program consists of a medical assisting certificate and an optional medical billing and coding certificate. A grade of “C” or better is required in all classes to progress in the program. To be admitted to the medical billing and coding certificate program, the student must complete the required prerequisites and follow the outlined procedures for enrollment.

The graduate of the certificate program in medical billing and coding will:
- Develop 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 and 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 and 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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBIS 101</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>MA 305</td>
<td>Body Systems and Diseases</td>
<td>5</td>
</tr>
<tr>
<td>MA 352</td>
<td>Medical Assisting Administrative 1</td>
<td>4</td>
</tr>
<tr>
<td>MA 360</td>
<td>Medical Billing and Insurance</td>
<td>4</td>
</tr>
<tr>
<td>MA 361</td>
<td>Coding for Medical Insurance</td>
<td>3</td>
</tr>
</tbody>
</table>

**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:
- Analyze and notate music using traditional Western music notation, theory and harmony.
- Perform as a member of an instrumental or vocal ensemble.
- 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.

**Required core courses (24 units):**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 101</td>
<td>Music History-Ancient to Baroque</td>
<td>3</td>
</tr>
<tr>
<td>MUS 102</td>
<td>Music History-Classical to 20th Century</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 113</td>
<td>Comprehensive Music Theory 3</td>
<td>4</td>
</tr>
<tr>
<td>MUS 114</td>
<td>Comprehensive Music Theory 4</td>
<td>4</td>
</tr>
<tr>
<td>MUS 120</td>
<td>Beginning Piano (+)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 121</td>
<td>Intermediate Piano (+)</td>
<td>1</td>
</tr>
</tbody>
</table>

Plus a minimum of 4 units selected from the following performance ensembles (students may repeat those courses designated as repeatable for degree credit):

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 130</td>
<td>Mixed Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUS 132</td>
<td>Masterworks Chorale</td>
<td>1</td>
</tr>
<tr>
<td>MUS 133</td>
<td>Chamber Voices</td>
<td>1</td>
</tr>
<tr>
<td>MUS 137</td>
<td>Concert Chorale</td>
<td>1</td>
</tr>
<tr>
<td>MUS 140</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUS 143</td>
<td>Jazz Band</td>
<td>1</td>
</tr>
<tr>
<td>MUS 144</td>
<td>Jazz Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUS 145</td>
<td>Big Band Jazz</td>
<td>1</td>
</tr>
<tr>
<td>MUS 150</td>
<td>Instrumental Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUS 151</td>
<td>Concert Band 1</td>
<td>1</td>
</tr>
</tbody>
</table>

The graduate of the AA program in music will:
- Analyze and notate music using traditional Western music notation, theory and harmony.
- Perform as a member of an instrumental or vocal ensemble.
- 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.
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.

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.

### 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.

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.

### NURSING - “30 UNIT” OPTION (Certificate of Achievement)

Completion of the 30-unit certificate 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 or the college. Applicants to this curriculum alternative must meet with the program director for advisement.

A major of 30 units is required for the certificate. In addition, a LVN to RN transition course may be required. Completion of this certificate qualifies the student to take the RN licensing examination.

### 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.

A vocational nursing graduate will 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.
- Provide information related to the effect of illness and health practices on the individual, family and others throughout the life span.
- Assume responsibility and accountability for his/her own professional development and function within legal boundaries of licensed vocational nursing practice.
- Relate and apply scientific principles when performing common nursing measures and procedures.
- Evaluate, within the nursing process parameters, the effectiveness of care rendered by self and others.
### DEGREES & CERTIFICATES

- 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></td>
<td>Required core courses (47 units):</td>
<td></td>
</tr>
<tr>
<td>NURS 310</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 311</td>
<td>Medication Administration</td>
<td>1.5</td>
</tr>
<tr>
<td>NURS 317</td>
<td>Fundamentals of Nursing</td>
<td>3.5</td>
</tr>
<tr>
<td>NURS 318</td>
<td>Clinical Lab 1</td>
<td>8</td>
</tr>
<tr>
<td>NURS 320</td>
<td>Gerontology</td>
<td>2</td>
</tr>
<tr>
<td>NURS 322</td>
<td>Maternal and Infant Health</td>
<td>2</td>
</tr>
<tr>
<td>NURS 323</td>
<td>Respiratory System</td>
<td>2</td>
</tr>
<tr>
<td>NURS 327</td>
<td>Gastrointestinal and Urinary Systems</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 329</td>
<td>Endocrine and Reproductive Systems</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 335</td>
<td>Integumentary &amp; Musculoskeletal Sys</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 328</td>
<td>Clinical Lab 2</td>
<td>3</td>
</tr>
<tr>
<td>NURS 330</td>
<td>Pediatrics</td>
<td>1.5</td>
</tr>
<tr>
<td>NURS 331</td>
<td>Circulatory System</td>
<td>2</td>
</tr>
<tr>
<td>NURS 332</td>
<td>Neurosensory System</td>
<td>2</td>
</tr>
<tr>
<td>NURS 337</td>
<td>Aspects of Professional Relations</td>
<td>1</td>
</tr>
<tr>
<td>NURS 338</td>
<td>Clinical Lab 3</td>
<td>8</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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 400</td>
<td>Certified Nursing Assistant</td>
<td>12</td>
</tr>
</tbody>
</table>

### 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.

### 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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 420</td>
<td>Restorative Aide</td>
<td>1.5</td>
</tr>
</tbody>
</table>

### 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.
- Apply monitor leads correctly.
- Explain the use of the cardiac monitor as a diagnostic and monitoring tool.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 422</td>
<td>EKG/Monitor Observer</td>
<td>1.5</td>
</tr>
</tbody>
</table>

### PHYSICAL EDUCATION: TEACHING (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.
- Demonstrate the value of lifelong activities such as golf, aerobic exercise, swimming and tennis that will enhance personal fitness.

A major of 28-29 units is required for the associate in arts degree.
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.

Required core courses (28 or 29 units):

<table>
<thead>
<tr>
<th>COURSE</th>
<th>NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATH 104</td>
<td>Care and Prevention of Athletic Injuries</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BIOL 124</td>
<td>Human Anatomy</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BIOL 125</td>
<td>Human Physiology</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 120</td>
<td>Introductory Chemistry</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>or CHEM 150</td>
<td>General Chemistry 1</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>FSN 110</td>
<td>Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HED 100</td>
<td>Health and Wellness</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 123</td>
<td>Elementary Statistics</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PSY 101</td>
<td>General Psychology</td>
<td>3</td>
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Recommended electives:

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<thead>
<tr>
<th>COURSE</th>
<th>NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Introduction to Biology</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BIOL 124</td>
<td>Human Anatomy</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BIOL 125</td>
<td>Human Physiology</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 135</td>
<td>Calculus with Applications</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PSY/HUSV 121</td>
<td>Social Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY/HUSV 128</td>
<td>Positive Psychology</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

PSYCHOLOGY (A.A.)
The associate degree program in psychology prepares students to move into a curriculum in a four-year institution leading to a baccalaureate degree in psychology.

The graduate of the AA program in psychology will:
- Define and discuss concepts, methods and techniques related to psychology, including maturation, motivation, emotion, cognitions and feeling.
- Describe the major contemporary personality theories and will be able to apply the concepts to psychological health, principles of adjustment and growth.
- Define, describe and evaluate the developmental process of the child from conception through adolescence with an emphasis on various psychological theories contributing to the development, parent-child relationships, various childhood disorders and therapies.
- Define, describe and evaluate the psychosocial human life-span/development starting from conception through death, including major concepts related to behavior, sexuality, nutrition, health, stress, environmental relationships and implication of death and dying.
- Describe and compare the basic knowledge about statistical analysis of data, including descriptive and inferential statistics with application.
- Critically evaluate the soundness of information which they encounter in the media and popular psychology publications.
- Understand the cultural influences on human behavior and mental processes.

A major of 25 units is required for the associate in arts degree.

Required core courses (13 units):

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>MATH 123</td>
<td>Elementary Statistics</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PSY 101</td>
<td>General Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY 113</td>
<td>Theories of Personality</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY 117</td>
<td>Child Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or PSY 118</td>
<td>Human Development-Lifespan</td>
<td>3</td>
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Plus a minimum of 12 units selected from the following:

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<th>UNITS</th>
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</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Introduction to Physical Anthropology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANTH 102</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUVS 106</td>
<td>Family Systems and Codependency</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY/SOC 104</td>
<td>Social Science Research Methods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY 112</td>
<td>Human Sexuality</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY 115</td>
<td>Behavior Modification</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY 116</td>
<td>Death and Dying</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY 119</td>
<td>Abnormal Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
<td></td>
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<tr>
<td>SOC 110</td>
<td>Personal and Family Relationships in the 21st Century</td>
<td>3</td>
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Recommended electives:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
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<tbody>
<tr>
<td>BIOL 100</td>
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<td>Human Anatomy</td>
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<td>Human Physiology</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 135</td>
<td>Calculus with Applications</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PSY/SOC 121</td>
<td>Social Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY/HUSV 128</td>
<td>Positive Psychology</td>
<td>3</td>
<td></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.
DEGREES & CERTIFICATES

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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</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></td>
<td></td>
</tr>
<tr>
<td>POLS 104</td>
<td>Introduction to International Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
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</table>

Required core courses (18 units):  

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115/</td>
<td>Introduction to Sound Recording and Mixing</td>
<td>3</td>
</tr>
<tr>
<td>FILM 120</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>

Required core courses (18 units):

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
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<th>UNITS</th>
</tr>
</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>
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<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>POLS 101</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POLS 101</td>
<td>Introduction to International Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
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Recommended electives:

<table>
<thead>
<tr>
<th>COURSE NUMBER</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>IS 141</td>
<td>Principles of Economics: Micro-Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Sociology of the Hispanic Culture</td>
<td>3</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.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115/</td>
<td>Introduction to Sound Recording and Mixing</td>
<td>3</td>
</tr>
<tr>
<td>FILM 120</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>
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Required core courses (12 units):

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<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115/</td>
<td>Introduction to Sound Recording and Mixing</td>
<td>3</td>
</tr>
<tr>
<td>FILM 120</td>
<td>Sound Production Techniques</td>
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</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>
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</table>

Plus a minimum of 7 units selected from the following:

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<th>TITLE</th>
<th>UNITS</th>
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</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>Fundamentals of AC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>and</td>
<td>Fundamentals of AC Circuit Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>EL 119</td>
<td>Fundamentals of DC &amp; AC Circuit Analysis Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

SPANISH (A.A.)

As the world becomes increasingly smaller, knowledge of foreign languages expands in importance. Spanish is a very useful 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>
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<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>
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Required core courses (10 units):

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<th>COURSE NUMBER</th>
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<th>UNITS</th>
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</thead>
<tbody>
<tr>
<td>SPAN 103</td>
<td>Intermediate Spanish</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 104</td>
<td>Intermediate Spanish</td>
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</table>

Recommended electives:

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
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</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</td>
<td>3</td>
</tr>
<tr>
<td>ASL 121</td>
<td>American Sign Language</td>
<td>3</td>
</tr>
<tr>
<td>BUS 140</td>
<td>Survey of International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS/ECON/</td>
<td>Global Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Freshman Composition: Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL/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>
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<tr>
<td>ITAL 102</td>
<td>Elementary Italian</td>
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</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.

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<th>COURSE NUMBER</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>SPEECH 101</td>
<td>Public Speaking</td>
<td>3</td>
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<tr>
<td>SPEECH 102</td>
<td>Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPEECH 103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPEECH 106</td>
<td>Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>SPEECH 108</td>
<td>Oral Interpretation of Literature</td>
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</tr>
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<td>SPEECH 110</td>
<td>Intercultural Communication</td>
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</table>

Plus a minimum of 3 units selected from the following:

- ANTH 102 Cultural Anthropology | 3
- ENGL 102 Freshman Composition: Literature | 3
- ENGL 103 Critical Thinking and Composition | 3
- FILM 101 Film as Art and Communication | 3
- HIST/HUM 104 Western Civilization to 1650 | 3
- HIST/HUM 105 Western Civilization Since 1650 | 3
- MATH 123 Elementary Statistics | 4
- PHIL 114 Critical Thinking | 3
- PSY 101 General Psychology | 3
- SOC 120 Race and Ethnic Relations | 3

**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>
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<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>
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<tbody>
<tr>
<td>SPCH 102</td>
<td>Small Group Communication</td>
<td>3</td>
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<tr>
<td>SPCH 103</td>
<td>Interpersonal Communication</td>
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<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 189</td>
<td>Independent Projects</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**TRANSFER STUDIES - CSU GENERAL EDUCATION BREADTH**

See Transfer Information section for course requirements.

**TRANSFER STUDIES - INTERSEGMENTAL GENERAL EDUCATION TRANSFER (IGETC)**

See Transfer Information section for course requirements.

**TRANSFER STUDIES - UC/CSU - TRANSFER STUDIES (MATH, ENGINEERING, AND SCIENCE MAJORS) (Certificate of Achievement)**

Before beginning this transfer pattern it is strongly recommended that you meet with a counselor to determine if this is appropriate for your major.

The transfer studies certificate of achievement is designed for students who plan to transfer to a four-year college or university. In order to meet specific transfer requirements, students should work with a counselor in course selection.

To meet the requirements for this program, students must complete a minimum of 18 transferable units in the prescribed pattern as follows:

A. Communication/Critical Thinking (6 units – one course in each area below)
   1) English Composition (3 units) - Courses fulfilling written communication requirement shall include substantial instruction and practice in college-level expository essay writing, reading of significant literature and research methods. Courses must be completed with a grade of "C" or better.
   2) Communication and Analytical Thinking (3 units). Courses fulfilling this requirement include oral communication, logic, critical thinking, argumentation/debate and related disciplines. Courses must be completed with a grade of "C" or better.

B. Mathematics/Quantitative Reasoning (3 units)
   Complete a 100-level mathematics course with a grade of "C" or better.
C. Art and Humanities (3 units)
Courses fulfilling this requirement include introductory or integrative courses in the arts, foreign languages, literature, western and world civilizations, philosophy and religion.

D. Social and Behavioral Sciences (3 units)
Courses fulfilling this requirement include introductory or integrative survey courses in cultural anthropology, archaeology, cultural geography, economics, ethnic studies, history, political science, psychology, sociology, interdisciplinary social/behavioral sciences and related disciplines.

E. Physical and Biological Sciences (3 units)
Courses fulfilling this requirement include introductory or integrative courses in astronomy, biology, chemistry, environmental studies, physical science, geology, meteorology, oceanography, physical geography, physical anthropology, physics and other scientific disciplines.

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-verticle 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.

A major of 20 units is required for the associate in science degree and 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-verticle 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.

A major of 19 units is required for the associate in science degree and certificate.

WILDLAND FIREFIGHTING OPERATIONS (A.S. & Certificate of Achievement)
The graduate of the AS or certificate program in wildland fire technology 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.

### COURSE NUMBER TITLE UNITS

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFT 301</td>
<td>Introduction to Incident Command System [I-100]</td>
<td>.5</td>
</tr>
<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 NUMBER TITLE UNITS

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<tr>
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<td>WFT 101</td>
<td>Wildland Fire Behavior</td>
<td>3</td>
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<tr>
<td>WFT 102</td>
<td>Wildland Fire Fighter Safety and Survival</td>
<td>3</td>
</tr>
<tr>
<td>WFT 103</td>
<td>Wildland Fire Operations (Ground, Air)</td>
<td>3</td>
</tr>
<tr>
<td>WFT 104</td>
<td>Wildland Fire Public Information Officer, Prevention, and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>WFT 105</td>
<td>Wildland Fire Logistics, Finance and Planning</td>
<td>3</td>
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</table>

Plus a minimum of 15 units selected from the following:

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<tr>
<th>NUMBER</th>
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</thead>
<tbody>
<tr>
<td>WFT 303</td>
<td>Intermediate Incident Command System [I-300]</td>
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<tr>
<td>WFT 304</td>
<td>Advanced Incident Command System [I-400]</td>
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<tr>
<td>WFT 305</td>
<td>Multi-Agency Coordination</td>
<td>.5</td>
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<tr>
<td>WFT 306</td>
<td>Incident Command System for Executives</td>
<td>.5</td>
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<tr>
<td>WFT 310</td>
<td>Basic Fire Suppression Orientation [S-110]</td>
<td>.5</td>
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<tr>
<td>WFT 311</td>
<td>Firefighter Training [S-130]</td>
<td>2</td>
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<td>WFT 312</td>
<td>Advanced Firefighter Training [S-131]</td>
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<tr>
<td>WFT 313</td>
<td>Introduction to Wildland Fire Behavior [S-190]</td>
<td>.5</td>
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<tr>
<td>WFT 314</td>
<td>Initial Attack Incident Commander</td>
<td>Type 4 ICT4 [S-200]</td>
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<tr>
<td>WFT 315</td>
<td>Supervisory Concepts and Techniques [S-201]</td>
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<tr>
<td>WFT 316</td>
<td>Fire Operations in the Urban Interface [S-205]</td>
<td>2</td>
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<tr>
<td>WFT 317</td>
<td>Portable Pumps and Water Use [S-211]</td>
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<tr>
<td>WFT 318</td>
<td>Wildfire Powersaws [S-212]</td>
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<td>WFT 319</td>
<td>Driving for the Fire Service [S-216]</td>
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<tr>
<td>WFT 320</td>
<td>Interagency Helicopter Training Guide [S-217]</td>
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<tr>
<td>WFT 321</td>
<td>Crew Boss (Single Resource) [S-230]</td>
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<tr>
<td>WFT 322</td>
<td>Engine Boss (Single Resource) [S-231]</td>
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<tr>
<td>WFT 323</td>
<td>Dozer Boss (Single Resource) [S-232]</td>
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<tr>
<td>WFT 324</td>
<td>Tractor/Plow Boss [S-233]</td>
<td>.5</td>
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<tr>
<td>WFT 325</td>
<td>Firing Methods &amp; Procedures [S-234]</td>
<td>1.5</td>
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<tr>
<td>WFT 326</td>
<td>Felling Boss [S-235]</td>
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<tr>
<td>WFT 327</td>
<td>Staging Area Manager [J-236]</td>
<td>.5</td>
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<tr>
<td>WFT 328</td>
<td>Field Observer [S-244]</td>
<td>2</td>
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<tr>
<td>WFT 329</td>
<td>Fire Business Management Principles [S-260]</td>
<td>.5</td>
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<tr>
<td>WFT 330</td>
<td>Basic Air Operations [S-270]</td>
<td>1</td>
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<td>WFT 331</td>
<td>Helispot Manager [J-272]</td>
<td>.5</td>
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<tr>
<td>WFT 332</td>
<td>Intermediate Wildland Fire Behavior [S-290]</td>
<td>2</td>
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<tr>
<td>WFT 333</td>
<td>Incident Commander, Multiple Resources [S-300]</td>
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<tr>
<td>WFT 334</td>
<td>Leadership &amp; Organizational Development [S-301]</td>
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<tr>
<td>WFT 335</td>
<td>Task Force/Strike Team Leader [S-330]</td>
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<tr>
<td>WFT 336</td>
<td>Fire Suppression Tactics [S-336]</td>
<td>2</td>
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<tr>
<td>WFT 337</td>
<td>Division/Group Supervisor [S-339]</td>
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<tr>
<td>WFT 338</td>
<td>Intermediate Aviation Operations [S-370]</td>
<td>2</td>
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<tr>
<td>WFT 339</td>
<td>Helibase Manager [S-371]</td>
<td>2</td>
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<tr>
<td>WFT 340</td>
<td>Helicopter Coordinator [S-374]</td>
<td>2</td>
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<tr>
<td>WFT 341</td>
<td>Air Support Group Supervisor [S-375]</td>
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<tr>
<td>WFT 342</td>
<td>Air Tanker Coordinator [S-376]</td>
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<tr>
<td>WFT 343</td>
<td>Air Tactical Group Supervisor [S-378]</td>
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<tr>
<td>WFT 344</td>
<td>Introduction to Wildland Fire Behavior</td>
<td>Calculations [S-390]</td>
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<td>WFT 345</td>
<td>Incident Commander [J-400]</td>
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<tr>
<td>WFT 346</td>
<td>Liaison Officer [S-402]</td>
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<tr>
<td>WFT 347</td>
<td>Safety Officer [S-404]</td>
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<tr>
<td>WFT 348</td>
<td>Standards for Survival [PMS-416]</td>
<td>.5</td>
</tr>
</tbody>
</table>

WFTO 349 Hazardous Materials Awareness Program for Firefighters [PMS-418] | .5 |
WFTO 350 Command and General Staff [S-420] | 2 |
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] | 1 |
WFTO 356 Air Operations Branch Director [S-470] | 2 |
WFTO 357 Advanced Wildland Fire Behavior Calculations [S-490] | 2 |
WFTO 358 Facilitative Instructor [PMS-925] | 2 |
WFTO 360 Hazardous Materials First Responder Update | .5 |
EMS 461 Medical First Responder Update | .5 |
WFTO 362 Campbell Prediction System | 1 |
WFTO 363 Fellowshio to Leadership [L-280] | 1 |
WFTO 364 Incident Leadership [L-381] | 2 |

**WILDLAND FIREFIGHTING PREVENTION, INVESTIGATION, PRESCRIBED BURNING (A.S. & Certificate of Achievement)**

The graduate of the AS or certificate program in wildland fire technology 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.

### COURSE NUMBER TITLE UNITS

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<td>Basic Incident Command System [I-200]</td>
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A major of 30 units is required for the associate in science degree and certificate.

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WFTO 349 Hazardous Materials Awareness Program for Firefighters [PMS-418] | .5 |
WFTO 350 Command and General Staff [S-420] | 2 |
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] | 1 |
WFTO 356 Air Operations Branch Director [S-470] | 2 |
WFTO 357 Advanced Wildland Fire Behavior Calculations [S-490] | 2 |
WFTO 358 Facilitative Instructor [PMS-925] | 2 |
WFTO 360 Hazardous Materials First Responder Update | .5 |
EMS 461 Medical First Responder Update | .5 |
WFTO 362 Campbell Prediction System | 1 |
WFTO 363 Fellowshio to Leadership [L-280] | 1 |
WFTO 364 Incident Leadership [L-381] | 2 |
### DEGREES & CERTIFICATES

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A major of 30 units is required for the associate in science degree and certificate.

### Required core courses (15 Units):

- WFT 101: Wildland Fire Behavior
- WFT 102: Wildland Fire Fighter Safety and Survival
- WFT 103: Wildland Fire Operations (Ground, Air)
- WFT 104: Wildland Fire Public Information Officer, Prevention & Investigation
- WFT 105: Wildland Fire Logistics, Finance, and Planning

Plus a minimum of 15 units selected from the following:

- WFT 303: Intermediate Incident Command System [I-300]
- WFT 304: Advanced Incident Command System [I-400]
- WFT 305: Multi-Agency Coordination
- WFT 306: Incident Command System for Executives
- WFTL 314: Base/Camp Manager [J-254]
- WFTL 315: Equipment Manager [J-255]
- WFTL 316: Tool and Equipment Specialist [J-256]
- WFTL 317: Incident Communications Manager [J-257]
- WFTL 318: Display Processor [J-245]
- WFTL 319: Receiving and Distribution Manager [J-259]
- WFTL 320: Construction Management Principles [S-260]
- WFTL 321: Personnel Time Recorder [J-261]
- WFTL 322: Equipment Time Recorder [J-262]
- WFTL 323: Claims Manager [J-263]
- WFTL 324: Compensation for Injury Manager [J-264]
- WFTL 325: Commissary Management [J-266]
- WFTL 326: Documentation Unit Leader [J-342]
- WFTL 327: Situation Unit Leader [J-346]
- WFTL 328: Demobilization Unit Leader [J-347]
- WFTL 329: Resource Unit Leader [J-348]
- WFTL 330: Facilities Unit Leader [J-354]
- WFTL 331: Ground Support Unit Leader [J-355]
- WFTL 332: Supply Unit Leader [J-356]
- WFTL 333: Food Unit Leader [J-357]
- WFTL 334: Communications Unit Leader [J-358]
- WFTL 335: Medical Unit Leader [J-359]
- WFTL 336: Cost Unit Leader [J-362]
- WFTL 337: Compensation/claims Unit Leader [J-363]
- WFTL 338: Time Unit Leader [J-365]
- WFTL 339: Procurement Unit Leader [J-368]
- WFTL 340: Planning Section Chief [J-440]
- WFTL 341: Logistics Section Chief [J-450]
- WFTL 342: Finance Section Chief [J-460]

or the following WFTO Courses:

- WFTO 305: Multi-Agency Coordination
- WFTO 306: Incident Command System for Executives
- WFTL 314: Base/Camp Manager [J-254]
- WFTL 315: Equipment Manager [J-255]
- WFTL 316: Tool and Equipment Specialist [J-256]
- WFTL 317: Incident Communications Manager [J-257]
- WFTL 318: Display Processor [J-245]
- WFTL 319: Receiving and Distribution Manager [J-259]
- WFTL 320: Construction Management Principles [S-260]
- WFTL 321: Personnel Time Recorder [J-261]
- WFTL 322: Equipment Time Recorder [J-262]
- WFTL 323: Claims Manager [J-263]
- WFTL 324: Compensation for Injury Manager [J-264]
- WFTL 325: Commissary Management [J-266]
- WFTL 326: Documentation Unit Leader [J-342]
- WFTL 327: Situation Unit Leader [J-346]
- WFTL 328: Demobilization Unit Leader [J-347]
- WFTL 329: Resource Unit Leader [J-348]
- WFTL 330: Facilities Unit Leader [J-354]
- WFTL 331: Ground Support Unit Leader [J-355]
- WFTL 332: Supply Unit Leader [J-356]
- WFTL 333: Food Unit Leader [J-357]
- WFTL 334: Communications Unit Leader [J-358]
- WFTL 335: Medical Unit Leader [J-359]
- WFTL 336: Cost Unit Leader [J-362]
- WFTL 337: Compensation/claims Unit Leader [J-363]
- WFTL 338: Time Unit Leader [J-365]
- WFTL 339: Procurement Unit Leader [J-368]
- WFTL 340: Planning Section Chief [J-440]
- WFTL 341: Logistics Section Chief [J-450]
- WFTL 342: Finance Section Chief [J-460]

### WILDLAND FIREFIGHTING LOGISTICS, FINANCE, PLANNING

(A.S. & Certificate of Achievement)

The graduate of the AS or certificate program in wildland fire technology 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.
- 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 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.
Our teachers inspire us to learn!

Katie O’Neill
Major: Geology and Photography

CATALOG
2010-2011
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 baccalaureate-level 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): The Cooperative Work Experience courses provide on-the-job learning related to a student’s educational or occupational goals, and is offered by numerous disciplines. See “Cooperative Work Experience” 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” 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” 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 @ 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 advance 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 in 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.
ACCOUNTING

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
S  = spring only
U  = summer only
W  = winter only
FSU= fall, spring, summer
SU = spring, summer
FS= fall, spring
F1 = fall, odd years
F2 = fall, even years
S1 = spring, odd years
S2 = spring, even years

ACCEPTING COURSES

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
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
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
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 317
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)
AJ 103 Concepts of Criminal Law 3 units
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 3 units
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; judicial decisions interpreting individual rights and case studies. (F) (GR/P/NP)

AJ 105 Community Relations 3 units
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 3 units
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 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated 3 times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”

AJ 189 Independent Projects in Administration of Justice 1 to 3 units
Course may be repeated 3 times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Independent Projects.”

AJ 301 Juvenile Procedures 3 units
The organization, functions and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes; and court procedures. (F) (GR/P/NP)

AJ 305 Police Patrol Procedures 3 units
A study of the procedures, philosophies and concepts of the police patrol system. It covers the vital areas of patrol preparation, field observation, field interviews, patrol systems, police ethics and professionalism, public service responsibilities, and their relationship to the administration of justice system. (F) (GR/P/NP)

AJ 306 Technical Police Report Writing 1.5 units
Designed to prepare the student to complete standard police report forms required by the State of California; to prepare field interrogation cards; to identify personal property and physical descriptions of individuals; to identify the corpus delicti of specific State statutes; and to learn use of the 10-code using principles of communication involved in effective writing. (A) (GR/P/NP)

AJ 307 Narcotics Investigation 1.5 units
Deals with the identification of narcotics offenses as stipulated in the California Penal Code, Health and Safety Code, Welfare and Institutions Code, Business and Professions Code and Vehicle Code. Included will be surveillance, court testimony, probable cause and court decisions related to the narcotic offender. Special consideration will be given to physical evidence and the Uniform Control Substance Act. (A) (GR/P/NP)

AJ 308 Drugs & Drug Dependency 1.5 units
An exploration of drugs and drug dependency. This includes classification, signs and symptoms, source, properties, effects and methods of use. Designed for anyone interested in the subject of drug use and abuse. (A) (GR/P/NP)

AJ 315 Introduction to Criminology 3 units
Theories of the causes of criminal behavior, focusing on the person and the group; criminal behavior systems; the police behavioral response to criminal activity and its nature and causes. (S) (GR/P/NP)

AJ 199, 399 Special Topics in Administration of Justice 0.5 to 3 units
199 - Acceptable for Credit: CSU, UC
For course description, see “Special Topics”

AG 101 Intro to Winemaking/Enology 3 units
Acceptable for credit: CSU, UC
An examination of enology (winemaking) including history, grape growing, chemistry, wine microorganisms, fermentation, winemaking operations, cooperage, physiology and sociology of wine and health and legal issues. (F,S) (GR/P/NP)

AG 102 Introduction to Viticulture 3 units
Acceptable for credit: CSU, UC
An introduction to viticulture including grape growing, biology, anatomy, history, distribution, propagation, varieties, wine types, climate, common diseases and pests. (F,S) (GR/P/NP)

AG 103 Sensory Evaluation of Wine 3 units
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)
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Acceptable for credit:</th>
<th>Advisory:</th>
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<tr>
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<tr>
<td>AG 105</td>
<td>Wine Marketing and Sales</td>
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<td>AG 106</td>
<td>Winery Organization</td>
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<td>AG 111</td>
<td>Global Positioning Systems (GPS)</td>
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<td>AG 112</td>
<td>Fundamentals of Mapping with GIS</td>
<td>3</td>
<td>CSU</td>
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<tr>
<td>AG 121</td>
<td>Viticulture Operations 2</td>
<td>3</td>
<td>CSU</td>
<td>AG 102</td>
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<tr>
<td>AG 122</td>
<td>Viticulture Operations 3</td>
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<td>CSU</td>
<td>AG 121</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>CSU</td>
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<td>AG 134</td>
<td>Internship Seminar</td>
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<td>CSU, UC-DAT</td>
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<td>AG 135</td>
<td>Grapevine Physiology</td>
<td>1</td>
<td>CSU</td>
<td>AG 102</td>
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**AG 104 Advanced Wine Evaluation**

- **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**

- **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**

- **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)**

- **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**

- **Acceptable for credit:** CSU

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 121 Viticulture Operations 2**

- **Acceptable for credit:** CSU

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**

- **Acceptable for credit:** CSU

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**

- **Acceptable for credit:** CSU, UC

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**

- **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 biological and chemical 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**

- **Acceptable for credit:** CSU, UC-DAT

Course may be repeated 3 times

**AG 135 Grapevine Physiology**

- **Acceptable for credit:** CSU

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 3 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 3 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, Madeira) 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
Acceptable for credit: CSU
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)
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<th>Units</th>
<th>Description</th>
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<tr>
<td>AG 311</td>
<td>Basic Winemaking 2</td>
<td>2 units</td>
<td>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)</td>
</tr>
<tr>
<td>AG 312</td>
<td>Viticulture II</td>
<td>3 units</td>
<td>This class prepares students to understand and make decisions for the viticultural process including canopy management, frost protection, specific deficit irrigation, morphology and physiology of the grapevine. (S) (GR/P/NP)</td>
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<tr>
<td>AG 314</td>
<td>Organic/Biodynamic Wine</td>
<td>3 units</td>
<td>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)</td>
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<tr>
<td>AG 320</td>
<td>Wine Tasting Room Sales</td>
<td>1.5 units</td>
<td>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)</td>
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<tr>
<td>AG 360</td>
<td>Advances in Viticulture</td>
<td>0.5 unit</td>
<td>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)</td>
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<tr>
<td>AG 361</td>
<td>Advances in Enology</td>
<td>0.5 unit</td>
<td>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)</td>
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<tr>
<td>ANTH 101</td>
<td>Intro to Physical Anthropology</td>
<td>3 units</td>
<td>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. Concurrent enrollment in ANTH 110 is encouraged. (F,S,U) (GR/P/NP)</td>
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<tr>
<td>ANTH 102</td>
<td>Intro to Cultural Anthropology</td>
<td>3 units</td>
<td>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)</td>
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<tr>
<td>ANTH 103</td>
<td>Introduction to Archaeology</td>
<td>3 units</td>
<td>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)</td>
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<tr>
<td>ANTH 105</td>
<td>Language and Culture</td>
<td>3 units</td>
<td>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)</td>
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<tr>
<td>ANTH 110</td>
<td>Physical/Biological Anthropology Lab</td>
<td>1 unit</td>
<td>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 anthropology by focusing on human variation and evolution. (F,S,U) (GR/P/NP)</td>
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<tr>
<td>ANTH 122</td>
<td>States of Consciousness</td>
<td>3 units</td>
<td>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)</td>
</tr>
<tr>
<td>ANTH 179, 379</td>
<td>Experimental Courses in Anthropology</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>ANTH 199</td>
<td>Special Topics in Anthropology</td>
<td>0.5 to 3 units</td>
<td>Acceptable for credit: CSU, UC-DAT. For course description, see “Special Topics.”</td>
</tr>
</tbody>
</table>
The major training received by an apprentice is on the job obtained from the industrial technology department. Applications or information concerning applications may be originated or sex. Age or older without regard to race, color, religion, national origin or sex.

**APPRENTICESHIP**

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**

Course may be repeated 7 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**

Course may be repeated 9 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**

Course may be repeated 7 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, 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**

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**

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**

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**

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**

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**

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**

Acceptable for credit: CSU

For course description, see “Experimental Courses.” (A) (GR/P/NP)

**ARCH 320 Uniform Building Code**

Acceptable for credit: CSU

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**

Acceptable for credit: CSU

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**

Acceptable for credit: CSU, UC

A study of the visual arts as an expression of thought and culture. (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>ART 103</td>
<td>Art History Survey—Ancient to Medieval</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>A survey of painting, sculpture and architecture in the western world from the Paleolithic through the Gothic period.</td>
<td></td>
<td>(F) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 104</td>
<td>Art History Survey—Renaissance to Modern</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>A survey of painting, sculpture and architecture in the western world from Renaissance to modern times.</td>
<td></td>
<td>(S) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 105</td>
<td>Art History Survey—Art of Mexico</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
<td>(A) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art of the 20th Century</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>Advisory: ART 103 is recommended.</td>
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<td></td>
</tr>
<tr>
<td>ART 107</td>
<td>Computer Fine Art</td>
<td>3</td>
<td>CSU</td>
</tr>
<tr>
<td></td>
<td>An examination of the styles and techniques of computer fine art.</td>
<td></td>
<td>(GR/P/NP)</td>
</tr>
<tr>
<td>ART 108</td>
<td>Design 1 on the Computer</td>
<td>3</td>
<td>CSU</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
<td>(F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 109</td>
<td>Art History Survey—American Art</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
<td>(F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 110</td>
<td>Design 1</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>An introduction to the elements and principles of design.</td>
<td></td>
<td>(F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 112</td>
<td>Design Color Theory</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: ART 110, ART 108 or GRPH 108</td>
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<tr>
<td></td>
<td>An intensive study and application of color theory.</td>
<td></td>
<td>(S2) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 113</td>
<td>Three Dimensional Design</td>
<td>3</td>
<td>CSU</td>
</tr>
<tr>
<td></td>
<td>Investigates a series of spatial design problems as they might apply to professional fields, including architecture, interior design, display and sculpture.</td>
<td></td>
<td>(A) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 115</td>
<td>Introduction to Animation</td>
<td>3</td>
<td>CSU</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
<td>(F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 120</td>
<td>Drawing 1</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>Course may be repeated 1 time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 121</td>
<td>Drawing 2</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: ART 120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 122</td>
<td>Life Drawing 1</td>
<td>3</td>
<td>CSU</td>
</tr>
<tr>
<td></td>
<td>A fundamental course in the study of the human figure including anatomy, form, movement and composition.</td>
<td></td>
<td>(A) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 123</td>
<td>Life Drawing 2</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: ART 122</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 124</td>
<td>Mixed Media—Traditional</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>Course may be repeated 1 time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 125</td>
<td>Painting in Acrylics 1</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: ART 110 and ART 120</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>An exploration of a variety of traditional and distinctly unique two- and three-dimensional art media as they relate to drawing and painting mediums.</td>
<td></td>
<td>(F) (GR/P/NP)</td>
</tr>
<tr>
<td>ART 126</td>
<td>Painting in Acrylics 2</td>
<td>3</td>
<td>CSU, UC</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: ART 125</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>An intermediate course with emphasis on the development of an individual style in acrylic painting.</td>
<td></td>
<td>(A) (GR/P/NP)</td>
</tr>
</tbody>
</table>
ART 116 Painting in Watercolor 1 3 units
Course may be repeated 1 time
Acceptable for credit: CSU, UC
Advisory: ART 110 and ART 120 are recommended.
A study of watercolor techniques. (A) (GR/P/NP)

ART 127 Painting in Watercolor 2 3 units
Course may be repeated 1 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 1 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 1 time
Acceptable for credit: CSU, UC
Prerequisite: ART 129
An intermediate course with an 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 3 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 3 times
Acceptable for credit: CSU, UC
An examination of the styles and techniques of landscape painting and drawing. (F,S) (GR/P/NP)

ART 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated 3 times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”

ART 160 Ceramics 1 3 units
Course may be repeated 1 time
Acceptable for credit: CSU, UC
An introduction to low fire clay and glaze processes, using handbuilding forming techniques. (F,S) (GR/P/NP)

ART 161 Ceramics 2 3 units
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)

ART 162 Ceramics 3 3 units
Acceptable for credit: CSU, UC
Advisory: ART 161
Advanced study in ceramics, including an introduction to reduction fired stoneware clay, glazes and decorating techniques. (F,S) (GR/P/NP)

ART 163 Ceramics Workshop 3 units
Acceptable for credit: CSU, UC
Advisory: ART 162
A continuation of Art 162 with individualized assignments. (F,S) (GR/P/NP)

ART 164 Sculpture 1 3 units
Course may be repeated 1 time
Acceptable for credit: CSU, UC
A basic exploratory course in sculpture techniques and materials. (A) (GR/P/NP)

ART 165 Sculpture 2 3 units
Course may be repeated 1 time
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)

ART 179, 379 Experimental Courses in Art 0.5 to 10 units
179 - Acceptable for credit: CSU, UC-DAT
For course description, see “Experimental Courses.”

ART 189 Independent Projects in Art 1 to 3 units
Course may be repeated 3 times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Independent Projects.”

ART 199 Special Topics in Art 0.5 to 3 units
Acceptable for credit: CSU, UC
For course description, see “Special Topics.”

ART 380 Art Lab (Ceramics) 1 0.5 unit
Course may be repeated 3 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)

ART 381 Art Lab (Ceramics) 2 1 unit
Course may be repeated 3 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)

ART 382 Art Lab (Sculpture) 1 0.5 unit
Course may be repeated 3 times
Corequisite: ART 164 or ART 165
systems will be explored. (F2,S1) (GR/P/NP)
manual markers, advanced classifiers and numbering development of conversational techniques, focusing on constructions. Provides an opportunity for further emphasizing ASL grammar, vocabulary and idiomatic expressive and receptive skill. Deaf cultural issues, non-
ART 382 and ART 383. (F,S) (P/NP)
enrolled in or have received credit for HIST 138. (S) (GR/P/NP)
emphasized. This course is not open to students who are folklore, art and philosophy. Interrelationship of societies is have shaped the community as viewed through literature, ASL 138 History of Deaf                                 3 units
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)

AMERICAN SIGN LANGUAGE

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 3 times.
Acceptable for credit: CSU, UC-DAT
For course description, see "Cooperative Work Experience: Occupational."

ASL 189 Independent Projects in American Sign Language 1 to3 units
Acceptable for credit: CSU, UC-DAT
Course may be repeated 3 times
For course description, see "Independent Projects."

ASTRONOMY

ASTR 100 Elementary Astronomy                 3 units
Acceptable for credit: CSU, UC
A survey course introducing the general principles and fundamental facts of astronomy. (F,S) (GR/P/NP)

ASTR 179 Experimental Courses in Astronomy    0.5 to 10 units
Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

ASTR 189 Independent Projects in Astronomy    1 to3 units
Course may be repeated 3 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 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)

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 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, 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 3 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 3 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 discipline. 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 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 3 times
For course description see “Independent Projects.”

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)
Advisory: Eligibility for MATH 511

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/P/NP)

AT 389 Independent Projects in Automotive Technology 1 to 3 units
Course may be repeated 3 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
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 301 or 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, BIOL 124, BIOL 125 or BIOL 150 and CHEM 110, CHEM 120 or CHEM 150
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
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 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 120 or CHEM 150 and MATH 331, MATH 334, MATH 100, MATH 105, MATH 123 or MATH 121.
A study of the nature of life, emphasizing its molecular and cellular aspects of life, particularly cellular reactions as governs organismic metabolism, biological and chemical evolution and Mendelian genetics. (F) (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. (S) (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. (S1) (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 3 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.”

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
Acceptable 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
Acceptable 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,U) (GR)

BUS 106 Small Business Management 3 units
Acceptable for credit: CSU
Advisory: Eligibility for ENGL 300
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,U) (GR/P/NP)

BUS 107 Human Relations in Business 3 units
Acceptable for credit: CSU
Advisory: Eligibility for or concurrent enrollment in ENGL 300
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
Acceptable 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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Acceptable for Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 111</td>
<td>Internet Marketing</td>
<td>3</td>
<td>CSU</td>
<td>A study of methods to create, distribute, promote and price goods and services to a target market over the Internet.</td>
</tr>
<tr>
<td>BUS 121</td>
<td>Business Economics</td>
<td>3</td>
<td>CSU</td>
<td>May be taken prior to or concurrently with ECON 101 or ECON 102. An introduction to basic economic analysis and institutions. Microeconomic analysis of income, employment, price level and international trade.</td>
</tr>
<tr>
<td>BUS 130</td>
<td>Consumer and Family Finance</td>
<td>3</td>
<td>CSU</td>
<td>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 will be studied.</td>
</tr>
<tr>
<td>BUS 140</td>
<td>Survey of International Business</td>
<td>3</td>
<td>CSU</td>
<td>An introduction to institutions and business practices in the international environment, emphasizing the major motivations compelling private firms to pursue international business.</td>
</tr>
<tr>
<td>BUS 141</td>
<td>Global Economics</td>
<td>3</td>
<td>CSU, UC</td>
<td>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.</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Business Communications</td>
<td>3</td>
<td>CSU</td>
<td>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.</td>
</tr>
<tr>
<td>BUS 179, 379</td>
<td>Experimental Courses in Business</td>
<td>0.5 to 10</td>
<td>CSU, UC</td>
<td>For course description, see “Experimental Courses.”</td>
</tr>
<tr>
<td>BUS 189</td>
<td>Independent Projects in Business</td>
<td>1 to 3</td>
<td>CSU, UC-DAT</td>
<td>Course may be repeated 3 times. For course description, see &quot;Independent Projects.&quot; Selected projects may be Tech Prep articulated.</td>
</tr>
<tr>
<td>BUS 199, 399</td>
<td>Special Topics in Business</td>
<td>0.5 to 3</td>
<td>CSU, UC</td>
<td>For course description, see “Special Topics.”</td>
</tr>
<tr>
<td>BUS 302</td>
<td>Essentials of Management</td>
<td>3</td>
<td>CSU</td>
<td>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.</td>
</tr>
<tr>
<td>BUS 303</td>
<td>Sales and Marketing</td>
<td>3</td>
<td>CSU</td>
<td>An overview of sales and marketing strategies including pricing, promotion and distribution of goods.</td>
</tr>
<tr>
<td>BUS 360</td>
<td>Introduction to Supervision</td>
<td>0.5</td>
<td>CSU</td>
<td>This class is designed to help managers develop supervisory skills needed to successfully manage a business enterprise.</td>
</tr>
<tr>
<td>BUS 361</td>
<td>Your Leadership Style</td>
<td>0.5</td>
<td>CSU</td>
<td>Students will identify their personal leadership style by reviewing a variety of conflict, communication and personality traits.</td>
</tr>
<tr>
<td>BUS 362</td>
<td>Management: People Skills</td>
<td>0.5</td>
<td>CSU</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.</td>
</tr>
<tr>
<td>BUS 363</td>
<td>Management: Conflict</td>
<td>0.5</td>
<td>CSU</td>
<td>This class is designed to help organizational leaders learn how to resolve conflict and manage resistance in the workplace.</td>
</tr>
<tr>
<td>BUS 364</td>
<td>Winning Business Plans</td>
<td>0.5</td>
<td>CSU</td>
<td>This class prepares you to create a business plan.</td>
</tr>
<tr>
<td>BUS 365</td>
<td>Managing Teams</td>
<td>0.5</td>
<td>CSU</td>
<td>An introduction to effective strategies for team building in the workplace.</td>
</tr>
<tr>
<td>BUS 366</td>
<td>Promoting a Small Business</td>
<td>0.5</td>
<td>CSU</td>
<td>A course designed to help small business owners promote their business using effective advertising, sales promotion, public relations and budgeting techniques.</td>
</tr>
</tbody>
</table>
BUS 367 Managing Change 0.5 unit
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)

BUS 368 Online Auctions 0.5 unit
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)

BUS 369 Employment Law 0.5 unit
An overview of employment laws and their impact on organizational policies, procedures and practices. (F,S,U) (P/NP)

BUS 370 Ethics and Integrity 0.5 unit
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)

BUS 371 Sexual Harassment Law 0.5 unit
An examination of laws, techniques, tools and skills needed for prevention of sexual harassment in the workplace. (F,S,U) (P/NP)

BUS 372 Workplace Diversity 0.5 unit
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)

BUS 373 Forming a Small Business 0.5 unit
An examination of laws forms, and procedures required to form a small business. (F,S,U) (P/NP)

BUS 374 Business Incorporation 0.5 unit
An examination of laws, form and procedures required to incorporate a business. (F,S,U) (P/NP)

BUS 375 Patents & Copyrights 0.5 unit
An examination of laws, form and procedures required to establish and protect patents and copyrights. (F,S,U) (P/NP)

BUS 376 Strategic Planning 0.5 unit
An examination of techniques, tools and skills needed for developing and leading the strategic planning process. (F,S,U) (P/NP)

BUS 377 Managing Service Quality 0.5 unit
An introduction to strategies to build and maintain outstanding customer service. (F,S,U) (P/NP)

BUS 378 Effective Sales Methods 0.5 unit
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)

BUS 380 Marketing Strategies 0.5 unit
Learn how to develop “winning” marketing plans, including strategies for product, brand, channel, communications and pricing. (F,S,U) (P/NP)

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 unit
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 unit
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 unit
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 .5 unit
Techniques, tools, and skills needed for effective employee performance evaluation are presented. (F,S,U) (P/NP)

BUS 393 Business Report Writing .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 .5 unit
This class is designed to help leaders improve their verbal communication skills. Students will learn how to improve the design and transmit their messages. (F,S,U) (P/NP)

BUS 395 Business Incorporation .5 unit
Laws, forms and procedures required to incorporate a business. (F,S,U) (P/NP)
BUS 396 Performance Measurement  .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  .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  .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)

BUS 400 Managing Individuals  .5 unit
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)

BUS 401 Management: Listening  .5 unit
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)

BUS 402 Managing Organizations  .5 unit
A look inside an organization to explore how organizational variables influence human behavior in the work place including: culture, power, job design and decision making. (F,S,U) (P/NP)

BUS 403 Issues in Internet Law  .5 unit
Review of issues essential to understanding emerging Internet laws. Not open to students who have taken “Business Law: Series”. (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
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 or CHEM 105. ((GR/P/NP)) (F,S,U)

CHEM 140 Introductory Organic Chemistry  4 units
Acceptable for credit: CSU, UC
Prerequisite: 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 120 and MATH 311
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 3 times
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

CBIS 101 Computer Concepts & Applications  3 units
Acceptable for credit: CSU, UC
Advisory: CBIS 301 or CBOT 100
A general education course focusing on computer concepts, terminology, uses and the computer’s effect on society. Introduces typical software applications such as word processing, spreadsheets, databases, presentation software and Internet browsers (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  
Provides the student with techniques for solving business problems and developing business decision-making processes using a software spreadsheet package.  
(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 3 times  
Acceptable for credit: CSU, UC-DAT  
For course description, see "Independent Projects.", "Special Topics.", "CBOT 100 Keyboarding."

CBIS 301 Computer Fundamentals 1 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 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 Web sites, searching for and registering domain names and analyzing business Web sites.  
(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 337 PowerPoint-Presentation Design 3 units  
Acceptable for credit: CSU, UC-CL  
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 Spreadsheet Applications 1 unit  
Provides the student with an introduction to the use of spreadsheets using a microcomputer. This is a hands-on, self-paced course with flexible hours.  
(F,S,U) (P/NP)

CBIS 372 Intro to Database Applications 1 unit  
Provides the student with an introduction to the use of electronic database management using a microcomputer database program. This is a hands-on, self-paced course with flexible hours.  
(F,S,U) (P/NP)

CBIS 373 Introduction to Windows 1 unit  
An introduction to the use of Windows, the most widely used Graphical-user interface for the IBM PC (compatibles) or Apple Macintosh. This is a hands-on, self-paced course with flexible hours.  
(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."

CBOT 100 Keyboarding 1 unit  
Acceptable for credit: CSU  
This course is Tech Prep articulated.  
Elementary keyboarding by touch techniques for those who need to develop keyboarding and keypad skills necessary for using computer keyboards. Enrollment permitted until the last six weeks or that equivalent of each semester.  
(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: Ability to keyboard 25 words per minute
An introduction to word processing designed to develop skills in formatting and editing documents using micro-computers. 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 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 a Web page using word processing software, completing a mail merge and recording macros. (F,S) (GR/P/NP)

CBOT 189, 389 Independent Projects in Computer Business Office Technology  1 to 3 units
Course may be repeated 3 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)

CBOT 312 Keyboarding Speed and Development  1 unit
Course may be repeated 2 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
Course may be repeated 1 time
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, using a variety of search engines, managing favorites and history, using e-mail and subscribing to newsgroups and RSS feeds. This is a hands-on, self-paced, open-entry, open-exit course with flexible hours. (F,S) (P/NP)

CBOT 337 PowerPoint-Presentation Design  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. Learn Publisher 2007. (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
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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 mechatronic 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 upon 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)

COMPUTER SCIENCE

CS 102 Introduction to Computing with HTML 3 units
Acceptable for credit: CSU, UC
Advisory: CBOT 100
A general education course dealing with how computers work, how they are used and their effects on society. Includes an introduction to Web page design using HTML. (F,S) (GR)

CS 105 PC Care and Upgrade 3 units
Acceptable for credit: CSU
Necessary skills and information needed to make an informed purchase and 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 EL 105. (F,S) (GR/P/NP)

CS 106 Networking Essentials 1 3 units
Acceptable for credit: CSU
Advisory: EL 105 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)
CS 107 Networking Essentials 2 3 units
Acceptable for credit: CSU
Prerequisite: EL 108 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)

CS 108 Networking 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 EL 108. (F,S) (GR/P/NP)

CS 109 Networking 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 EL 109. (F,S) (GR/P/NP)

CS 121 Fundamentals of Programming 1 4 units
Acceptable for credit: CSU, UC
Prerequisite: MATH 311. Advisory: CS 102
An introduction to the fundamentals of computer programming and software design. Topics include variables, data types, assignment, expressions, basic I/O, control flow, functions and parameters, scope and data structures. Emphasizes top-down design, step-wise refinement and an engineering approach using a high-level language such as "C." (F,S) (GR)

CS 122 Fundamentals of Programming 2 2 units
Acceptable for credit: CSU, UC
Prerequisite: MATH 311 Advisory: CS 121
A continuation of the fundamentals of programming. Topics include algorithm design and problem-solving strategies; concepts of object-oriented programming: classes, objects, encapsulation, inheritance and polymorphism. Students will develop applications using class hierarchies and abstract data types. Searching and sorting algorithms will be introduced. (F,S) (GR)

CS 123 Fundamentals of Programming 3 2 units
Acceptable for credit: CSU, UC
Prerequisite: MATH 311 Advisory: CS 122
A continuation of the fundamentals of programming. Topics include design and implementation of Abstract Data Types (ADTs); dynamic data structures such as linked lists, Graphs and trees; traversal using iterators; pointers and dynamic allocation. Problem-solving strategies as well as design and analysis of algorithms are covered. (F,S) (GR)

CS 141 Computer Fundamentals in Digital Design Laboratory 2 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; combinatorial 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 3 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 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 172 Linux and Shell Scripting 3 units
Acceptable for credit: CSU, UC
Advisory: CS 121 or CS 175
A study of the UNIX-based operating systems covering command basics and file management, as well as shell use and programming. Topics include the kernel; various interactive shells; processes; the file system; utilities such as awk, sed and grep; and regular expressions. The Linux operating system is used. (S) (GR)

CS 175 Object-Oriented Programming 3 units
Acceptable for credit: CSU, UC
Prerequisite: MATH 311. Advisory: CS 121
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 121. Advisory: CS 123
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 3 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."

CS 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 EL 320. (F,S) (GR/P/NP)

CS 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 EL 332. (F,S) (GR/P/NP)

CS 333 Introduction 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 EL 333. (F,S) (GR/P/NP)

CWE 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated 4 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 8 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 2 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 3 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
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
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
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)

CA 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, 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. (S) (GR/P/NP)

CA 121 Basic Baking and Pastry 3 units
Acceptable for credit: CSU
Advisory: CA 120 or FCS 120 and MATH 511
The study of equipment, skills and procedures used in commercial bakeries. Includes practical application in the production of a wide variety of quick and yeast breads and cookies. (F) (GR/P/NP)

CA 122 Advanced Baking & Pastry 3 units
Acceptable for credit: CSU
Prerequisite: CA 121 or FCS 121
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. (F) (GR/P/NP)

CA 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, 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. (F) (GR/P/NP)

CA 124 Sanitation, Safety & Equipment 3 units
Acceptable for credit: CSU
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. (S) (GR/P/NP)

CA 125 Supervision & Training 3 units
Acceptable for credit: CSU
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. (F) (GR/P/NP)

CA 126 Food Production Cost, Control 3 units
Acceptable for credit: CSU
Advisory: MATH 511
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. (A) (GR/P/NP)

CA 129 Catering & Events Management 3 units
Acceptable for credit: CSU
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. (S) (GR/P/NP)

CA 199, 399 Special Topics in Culinary Arts 0.5 to 3 units
199 - Acceptable for credit: CSU, UC-DAT
For course description, see "Special Topics."

CA 323 Specialty & Wedding Cakes 1 unit
Course may be repeated 2 times
Advisory: CA 120 or FCS 120
A study of cake making including mixing, baking, assembling, filling and frosting with American layer, European style and wedding cake assembly. Client relations and business practices for wedding cake sales is covered. (S,U) (G/P/NP)
CA 324 Cake Decorating & Decorative Work  1 unit
Course may be repeated 2 times
Advisory: CA 120 or FCS 120
Instruction in cake decorating techniques including assembling and icing cakes and pastry bag work for borders, lace, string work, writing and flowers. Cake design, colors, construction, evaluation and decorations of marzipan, pastillage and nougatine will be covered. (F) (GR/P/NP)

DANCE

DANC 101 Dance Appreciation  3 units
Acceptable for credit:  CSU, UC
An overview of the development of dance as an art form from its historical roots to contemporary trends, emphasizing multicultural/gender issues. (F) (GR/P/NP)

DANC 110 Modern Dance  2 units
Course may be repeated 3 times
Acceptable for credit:  CSU, UC
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. (F,S) (GR/P/NP)

DANC 111 New Age Styles  2 units
Course may be repeated 3 times
Acceptable for credit:  CSU, UC.
The study and execution of modern dance techniques, including level 2 movement skills with a more advanced rhythmic structure. 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. (F,S) (GR/P/NP)

DANC 115 Freestyle Dance Techniques  3 units
Course may be repeated 3 times
Acceptable for credit:  CSU, UC.
Limitation on enrollment: Audition
Emphasizes the particular styles of Cunningham, Graham and Limon, including turns, extensions and complex floor work. Students have the opportunity to create their own movement combinations. (A) (GR/P/NP)

DANC 116 Yoga-based Pilates  0.5 unit
Course may be repeated 3 times
Acceptable for credit:  CSU, UC
An introduction to yoga-based Pilates exercise techniques. (A) (P/NP)

DANC 120 Ballet  2 units
Course may be repeated 3 times
Acceptable for credit:  CSU, UC
An introduction to the fundamentals of ballet movement and terminology. Barre work emphasizes the basic exercises of ballet that develop control, strength and basic body placement. Center work concentrates on basic ballet combinations of adage, jumps, waltz and turns. Students have the opportunity to create their own movement combinations. (F,S) (GR/P/NP)

DANC 121 Barre and Center Techniques  2 units
Course may be repeated 3 times
Acceptable for credit:  CSU, UC
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. (F,S) (GR/P/NP)

DANC 125 Classical Dance Forms  3 units
Course may be repeated 3 times
Acceptable for credit:  CSU, UC
Emphasizes complex work in the Russian and Italian styles, including pirouettes, beats and pointe work. Students have the opportunity to develop techniques of classical dance forms. (A) (GR/P/NP)

DANC 126 Ballet Barre  0.5 unit
Course may be repeated 3 times
Acceptable for credit:  CSU, UC
An introduction to the fundamentals of ballet movements at the barre with emphasis on proper body placement and alignment. (A) (P/NP)

DANC 130 Jazz  2 units
Course may be repeated 3 times
Acceptable for credit:  CSU, UC
An introduction to the basic movements appropriate to contemporary jazz music, emphasizing exercises that develop body stretch and strength 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. (F,S) (GR/P/NP)

DANC 131 Techniques of Contemporary Dance  2 units
Course may be repeated 3 times
Acceptable for credit:  CSU, UC
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. (F,S) (GR/P/NP)

DANC 133 Hip Hop/Jazz Styles  2 units
Course may be repeated 3 times
Acceptable for credit:  CSU, UC
An introduction to hip hop and jazz dance styles. (F,S) (GR/P/NP)

DANC 135 Commercial Dance Forms  3 units
Course may be repeated 3 times
Acceptable for credit:  CSU, UC
Limitation on enrollment: Audition
Emphasizes the techniques of commercial dance forms, particularly the Luigi, Jack Cole and Bob Fosse styles of commercial theatre, including complex turns, floor work, isolation combinations and rhythm techniques. Students have the opportunity to create their own movement combinations. (A) (GR/P/NP)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Repeatable Times</th>
<th>Acceptable for Credit</th>
<th>Notes</th>
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<tbody>
<tr>
<td>DANC 140</td>
<td>Folkloric Dance</td>
<td>1</td>
<td>3</td>
<td>CSU, UC</td>
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<td>Course may be repeated 3 times</td>
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<td>An introduction to the fundamentals of movements</td>
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<td>Focused for Mexican folkloric and dances of Spain</td>
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<td>DANC 142</td>
<td>Floricanto Dance</td>
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<td>CSU, UC</td>
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<td>Course may be repeated 3 times</td>
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<td>Floricanto dance from Mexico and Spain at the</td>
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<td>intermediate level</td>
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<td>DANC 145</td>
<td>Folklorico Zapateados</td>
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<td>A study of Zapateado movements associated with</td>
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<td>Mexican Folklorico dances</td>
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<td>DANC 148</td>
<td>Folklorico Production</td>
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<td>A study of fundamental dance techniques</td>
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<td>DANC 150</td>
<td>Hoofing</td>
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<td>A study of intricate tap movements</td>
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<td>DANC 151</td>
<td>Clinic in Tap</td>
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<td>Clinic in Tap</td>
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<td>DANC 152</td>
<td>Musical Theater Forms: Tap Dance</td>
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<td></td>
<td>Clinic in Tap</td>
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<td>DANC 153</td>
<td>Musical Theater: Intermediate Rhythmic Forms</td>
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<td>Clinic in Intermediate Rhythmic Forms</td>
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<td>DANC 154</td>
<td>Pointe &amp; Partnering</td>
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<td>Clinic in Pointe &amp; Partnering</td>
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<td>DANC 155</td>
<td>Pilates-based Body Conditioning</td>
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<td>Clinic in Pilates-based Body Conditioning</td>
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<td>DANC 156</td>
<td>Techniques for Stretch</td>
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<td>CSU, UC</td>
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<td>DANC 161</td>
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<td>DANC 162</td>
<td>Clinic in Contemporary Forms</td>
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<td>CSU, UC</td>
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<td>Clinic in Intermediate Contemporary Dance Forms</td>
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<td>Clinic in Intermediate Contemporary Dance Forms</td>
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<td>DANC 164</td>
<td>Clinic in Modern Forms</td>
<td>0.5</td>
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<td>DANC 165</td>
<td>Clinic in Hip Hop</td>
<td>0.5 unit</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>An introduction to hip hop dance. (U) (GR/P/NP)</td>
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<tr>
<td>DANC 167</td>
<td>Rhythm Tap</td>
<td>0.5 unit</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>A study of complex tap rhythms. (S) (GR/P/NP)</td>
</tr>
<tr>
<td>DANC 168</td>
<td>Clinic in Stretch</td>
<td>0.5 unit</td>
<td>1 time</td>
<td>CSU, UC</td>
<td>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) (GR/P/NP)</td>
</tr>
<tr>
<td>DANC 170</td>
<td>Rhythms for Dancers</td>
<td>1 unit</td>
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<td>CSU, UC</td>
<td>Advisory: DANC 152 or DANC 153 The study of music terminology and basic rhythms as they relate to dance, including quality and phrasing and extensive practice in counting and moving to music. (U) (GR/P/NP)</td>
</tr>
<tr>
<td>DANC 171</td>
<td>Dance Composition/Choreography</td>
<td>3 units</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>Advisory: DANC 110, DANC 120 or DANC 130 An exploration of movement expression through improvisation and choreographic exercises, using music, rhythm, space, time, emotions, props and sets. Students have an opportunity to work on a choreographic piece as a complete concert piece. (U) (GR/P/NP)</td>
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<tr>
<td>DANC 172</td>
<td>Choreography 2</td>
<td>3 units</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>An exploration of movement expression using intermediate-level choreographic exercises. Students will work on several choreographic projects. (A) (GR)</td>
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<tr>
<td>DANC 173</td>
<td>Complex Ballroom Rhythms</td>
<td>0.5 unit</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>Advisory: DANC 172 A study of complex ballroom dances. (A) P/NP</td>
</tr>
<tr>
<td>DANC 175</td>
<td>Salsa, Swing, and Two-Step</td>
<td>0.5 unit</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>Course may be repeated 3 times Acceptable for credit: CSU, UC An introduction to the specific styles of salsa, swing and two-step as social dance forms. (U) (P/NP)</td>
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<tr>
<td>DANC 176</td>
<td>Choreography Field Work</td>
<td>2 units</td>
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<td>CSU</td>
<td>Twelve hours lab weekly (eight weeks). Designed to give the intermediate-level dance student projects in choreography that will lead to a performance. (U) (GR)</td>
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<tr>
<td>DANC 177</td>
<td>Latin &amp; Jitterbug Dance Forms with Lifts</td>
<td>0.5 unit</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>A study of complex Latin and jitterbug dance forms. Partner lifts will be explored. (A) P/NP</td>
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<tr>
<td>DANC 179</td>
<td>Experimental Courses in Dance</td>
<td>0.5 to 10 units</td>
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<td>CSU, UC-DAT</td>
<td>179 - Acceptable for credit: CSU, UC For course description, see “Experimental Courses.”</td>
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<tr>
<td>DANC 180</td>
<td>Performance Lab</td>
<td>3 units</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>Limitation on enrollment: Audition Provides an opportunity for 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>
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<tr>
<td>DANC 181</td>
<td>Ensemble Summer Production</td>
<td>2 units</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>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 rigors of 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>
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<tr>
<td>DANC 182</td>
<td>Technical Production Lab</td>
<td>3 units</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>Provides an opportunity for students to develop and apply technical expertise and skills utilized in dance performance, including lighting, costuming and set-prop design and construction. (F,S) (GR)</td>
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<tr>
<td>DANC 183</td>
<td>Dance Ensemble</td>
<td>3 units</td>
<td>3 times</td>
<td>CSU, UC</td>
<td>Provides the opportunity for career-oriented dance performers to work with staff and guest artists in the rehearsal and performance experience. Department concerts plus performance in the community comprise the year-round performing activities. Students may take DANC 181 and DANC 183 or any combination of the two up to a total of four classes. (S) (GR)</td>
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DANC 184 Summerdance Production 2 units
Course may be repeated 3 times
Acceptable for credit: CSU, UC
Limitation on enrollment: Audition
An intensive course providing the student with an opportunity to experience all the skills used as a performer and choreographer in dance performance. (U) (GR)

DANC 185 Introduction to Performance Skills 3 units
Course may be repeated 1 time
Acceptable for credit: CSU, UC
An introductory skills class in performance techniques.
Provides opportunity for students to learn and perform skills used in a dance performance. (F,S) (GR)

DANC 186 Dance Production 2 units
Course may be repeated 3 times
Acceptable for credit: CSU, UC
Limitation on enrollment: Audition
An opportunity for students to learn and use performance skills necessary to mount a major concert. F,S,U (GR)

DANC 187 Folkloric Production 2 units
Course may be repeated 3 times
Acceptable for credit: CSU, UC
Advisory: DANC 140 or DANC 141
Provides an opportunity for students to use their folkloric performance skills in a variety of stage/audience settings. (F) (GR)

DANC 189 Independent Projects in Dance 1 to 3 units
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

DENTAL ASSISTING

The following dental assisting courses make up the major. A Grade of C or better in the designated dental assisting classes is required to progress in the program. To be admitted to the program, the student must obtain the official application forms and follow the outlined procedures for enrollment. Upon completion of this program, the student is qualified to take the California Registered Dental Assistant’s Examination.

DA 310 Exploring Career Opportunities 3 units
An exploration of dental health care 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, 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, DA 317 and DA 318.
Advisory: Minimum reading comprehension START score of 72.
This course is primarily designed for the clinical dental assistant. It includes professional and ethical issues facing the dental professional and emphasizes compliance with OSHA and HIPAA regulations, as well as professional licensing requirements. Practical applications of business skills are reviewed and developed. These skills include clinical documentation, communication, inventory management, appointment schedules, 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: DA 314, DA 315, DA 316 and DA 324
Focuses 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: DA 315 and DA 316
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 of first semester dental assisting courses. Corequisite: Enrollment in second semester dental assisting courses.
Clinical application of dental screening skills. Emphasizes chair-side assisting as well as identifying and recording clinical findings. (S) (GR)
DA 328 Pit & Fissure Sealants 1 unit
Prerequisite: DA 314, DA 315, DA 316 and DA 324.
Corequisite: ENGL 301 or ENGL 101.
Acceptable for credit: CSU, UC

DA 329 Dental Assisting Practicum 5 units
Prerequisite: Successful completion of first semester dental assisting courses.
Corequisite: Enrollment in 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
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. (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 348 RDA - Success Seminar 0.5 unit
Prerequisite: Successful completion of second semester dental assisting program 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 2 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)

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
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
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 3 times
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.
The exploration and development of a theatrical production. Students apply the necessary skills for the process of mounting a professional theatrical production. (F,S,U) (GR)

**DRMA 113 Performance Laboratory**  
3 units  
Course may be repeated 3 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 Introduction to Theatre Laboratory**  
1 unit  
Course may be repeated 3 times  
*Acceptable for credit: CSU*  
Prerequisite: Completion of the program application and procedures for enrollment.  
Advisory: Eligibility for ENGL 101 or ENGL 301  
An opportunity to experience professional theatre by assisting in one of the PCPA production areas: the artistic office, acting, directing, musical direction, choreography, design, production management, marketing, casting or any of the production shops. (F,S,U) (GR/P/NP)

**DRMA 115 Repertory Theatre**  
10 units  
Course may be repeated 3 times  
*Acceptable for credit: CSU*  
Limitation on enrollment: Audition or interview.  
The career-oriented theatre student works in every aspect of preparation 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 3 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*  
Limitation on enrollment: Audition and interview.  
Prerequisite: DRMA 102  
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 Advanced Professional Acting II**  
10 units  
*Acceptable for credit: CSU, UC*  
Limitation on enrollment: Audition and interview.  
Prerequisite: DRMA 120  
A continuation of DRMA 120 with specific emphasis on personal acting problems. (S) (GR)

**DRMA 122 Stage Management**  
2 units  
*Acceptable for credit: CSU*  
Limitation on enrollment: Completion of the program application and procedures for enrollment.  
Advisory: Eligibility for ENGL 101 or ENGL 301  
An exploration of basic stage managerial skills for organizing, preparing and fulfilling theatrical production from the 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 ENGL101 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*  
Limitation on enrollment: Completion of the program application and procedures for enrollment.  
Advisory: Eligibility for ENGL101 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
Limitation on enrollment: Completion of the program application and procedures for enrollment.
Advisory: Eligibility for ENGL 101 or ENGL 301
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 136 Design & Technology–Sets 1 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 2 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
Limitation on enrollment: Completion of the program application and procedures for enrollment.
Advisory: Eligibility for ENGL 101 or ENGL 301
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 applications such as Vectorworks, set model construction and black and white elevation development. (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
Limitation on enrollment: Completion of the program application and procedures for enrollment.
Advisory: Eligibility for ENGL 101 or ENGL 301
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 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 is through lecture, demonstration and lab projects. 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
Limitation on Enrollment: Completion of the program application and procedures for enrollment.
Advisory: Eligibility for ENGL 101 or ENGL 301
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 3 times
Acceptable for credit: CSU, UC
Prerequisite: DRMA 124, DRMA 125, DRMA 136, DRMA 140, 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, DRMA 125, DRMA 136, DRMA 140, 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 3 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 examination 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 301 Actors' Ensemble 6 units  
Course may be repeated 3 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 3 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 hone 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 4 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 resumes 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 4 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 resumes and portfolios through their participation in the development and performance of a variety of theatrical productions in a repertory season. (S) (GR)

EARLY CHILDHOOD STUDIES

ECS 100 Child Growth & Development 3 units  
Acceptable for credit: CSU, UC  
The study of child development from the prenatal through the middle-school age, emphasizing physical, cognitive, emotional and social patterns of growth, as well as insights into child development research methodology. (F,S,U) (GR/P/NP)

ECS 101 Child, Family and Community 3 units  
Acceptable for credit: CSU, UC  
A study of the sociological patterns that surround a growing child, emphasizing the influences of family and community and focusing on the important role that a teacher plays in a child's formative years. (F,S,U) (GR/P/NP)

ECS 102 Child Health, Safety & Nutrition 3 units  
This course provides an introduction to the principles, procedures, standards and laws concerning health, safety 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 Introduction to Early Childhood Education** 3 units
A study of the historical roots of early childhood education.
Examination of career opportunities and the ethical
responsibilities involved in the role of the early childhood
professional. Introduces developmentally appropriate
practice, environments and teaching strategies that support
constructive adult-child relationships that enhance the
physical, social, emotional and intellectual development of
children. (F,S) (GR/P/NP)

**ECS 105 Observation and Assessment** 3 units
Acceptable for credit: CSU
Prerequisite: ECS 100
This course focuses 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 curricu-
num and environments in the early childhood areas of art,
social studies, literature, language, diversity, music, move-
ment, cooking and nutrition, math and science. Students will
examine the teacher’s role in supporting children’s develop-
ment and joy of learning through observation, assessment
and implementation of various curriculum activities.
(F,S) (GR/P/NP)

**ECS 111 Supervision & Administration** 3 units
Acceptable for credit: CSU
Prerequisite: ECS 106
Principles and practices in the supervision and administra-
tion of various kinds of nursery schools and child care
centers, including program planning, organizational
structure, budgeting, personnel administration, legal
requirements and food management. (S) (GR/P/NP)

**ECS 112 Preschool Child with Special Needs** 3 units
Acceptable for credit: CSU
Prerequisite: ECS 100
Provides an overview of the characteristics of "special
needs" preschool children and considers those educational
approaches most suited to their particular needs.
(S) (GR/P/NP)

**ECS 113 Infant Intervention** 3 units
Acceptable for credit: CSU
Advisory: ECS 100 and ECS 112
Designed to acquaint students with the characteristics of
atypical infants and toddlers, age 0-3 years; assessment;
family/professional partnerships; techniques for intervention
in developmental areas of sensory regulation, motor control,
cognition, language, social and self-help skills. Explores
community and career opportunities in fields related to
atypical infant/toddlers: early childhood studies, special
education medicine, therapy, social work, aide and
interpreter skills. (S,A) (GR/P/NP)

**ECS 114 Parent/Child Relationships** 3 units
Acceptable for credit: CSU
Examines socio-cultural and psychological perspectives on
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)

**ECS 115 Caring for Infants & Toddlers** 3 units
Acceptable for credit: CSU
Advisory: ECS 100
Care and education of infants and toddlers, emphasizing
environments that facilitate optimum physical, social and
cognitive Growth and development as well as positive
relationships with families. (F) (GR/P/NP)

**ECS 116 Multicultural Education** 3 units
Acceptable for credit: CSU
Explores cultural issues that relate to the education of
diverse populations of children and acquaints students with
non-bias multicultural teaching strategies and curriculum
suitable for young children. (F,S) (GR)

**ECS 117 Teaching the Hispanic Child** 3 units
Acceptable for credit: CSU
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)

**ECS 118 Practicum: Preschool** 3 units
Acceptable for credit: CSU
Prerequisite: ECS 106 with a “C” or better
This course includes 4.5 hours of supervised practicum
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, in-
sights, 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)

**ECS 119 Practicum: Infant/Toddler** 3 units
Acceptable for credit: CSU
Prerequisite: ECS 106 with a “C” or better
This course involves 4.5 hours of supervised practicum
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, in-
sights, 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)

**ECS 120 Mentor Teacher & Adult Supervision** 2 units
Acceptable for credit: CSU
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)
ECS 121 Family Child Care Business 2 units
Acceptable for credit: CSU
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)

ECS 122 Positive Child Guidance 3 units
Acceptable for credit: CSU
This course will explore developmentally appropriate 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)

ECS 125 Curriculum for School-Age Children 3 units
Acceptable for credit: CSU
Advisory: ECS 100 and ECS 101
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 day-care programs. (F,S) (GR/P/NP)

ECS 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, CA'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 EDUC 130. (F,S) (GR)

ECS 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. This course is not open to students who are enrolled in or have completed EDUC132. (S) (GR)

ECS 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 EDUC 133. (F,S) (GR/P/NP)

ECS 149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated 3 times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”

ECS 179, 379 Experimental Courses in Early Childhood Studies 0.5 to 10 units
179 - Acceptable for credit: CSU, UC-DAT
For course description, see “Experimental Courses.”

ECS 189 Independent Projects in Early Childhood Studies 1 to 3 units
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

ECS 199, 399 Special Topics in Early Childhood Studies 0.5 to 3 units
199 - Acceptable for credit: CSU, UC-DAT
For course description, see “Special Topics.”

ECS 303 Intro to Research Methodologies 1 unit
Advisory: IS 300
Provides necessary skills to effectively research child development topics using the Internet. The course is taught online through demonstrations and hands-on computer interactions enabling students to successfully use Blackboard. (F,S) (GR/P/NP)

ECS 310 Art for Young Children 0.5 unit
Designed to familiarize students with the theories and techniques of art for young children. (GR/P/NP)

ECS 311 Creating Learning Materials 0.5 unit
Designed to acquaint students with multicultural teaching strategies and multicultural curriculum materials suitable for use with young children. (GR)

ECS 312 Music Activities for Young Child 0.5 unit
Designed to familiarize students with methods of integrating music activities, such as rhythms, songs, records and simple musical instruments, into the education of young children. (GR)

ECS 315 Discipline: Effective/Caring Approach 0.5 unit
Effective and caring approaches to the discipline of young children, emphasizing techniques which help children become responsible, cooperative, compassionate and self-disciplined individuals. Causes of misbehavior and preventive measures will be explored. (GR)

ECS 320 Administration: Staff Leadership 1 unit
Prerequisite: ECS 105
Review of effective leadership styles in the administration of early childhood programs that result in improved staff communication and job performances. (GR)

ECS 321 Admin: Professional Ethics 1 unit
Prerequisite: ECS 106
Review of the administrator’s ethical responsibilities of children, families, community and society based on the standards recommended by the national Association for the Education of Young Children. (GR)
ECON 101 Principles of Macro-Economics 3 units
Acceptable for credit: CSU, UC
ECON 101 may be taken prior to or concurrently with ECON 102.
An introduction to aggregate economic analysis. Topics include market systems; economic cycles including recession, unemployment and inflation; national income accounts; macroeconomics equilibrium; money and financial institutions; monetary and fiscal policy; and international trade and finance. (F,S,U) (GR)

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 IS 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.”
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: EL 106 or CS 106 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 CS 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 CS 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 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, Thevenin, Norton, superposition and maximum power transfer network theorems 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 troubleshooting 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. Includes detailed analysis of Diodes, BJT’s and FET’s, 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 with an emphasis on Diodes, BJT’s, FET’s, thyristors, optoelectronic devices and linear integrated circuits. (F) (GR)

EL 125 Digital Devices & Circuits 3 units

Acceptable for credit: CSU
Advisory: EL 113 and EL 114 or EL 118 and EL 119 and completion of or concurrent enrollment in EL 122
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 EL 125
Digital electronics laboratory designed to parallel EL 125. Emphasizes 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 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)

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, 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 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. (A) (GR/P/NP)

EL 135 Electronic Measurement and Instrument 3 units

Acceptable for credit: CSU
Prerequisite: EL 122, EL 123, EL125 and EL126. Advisory: Concurrent enrollment in EL 136 is recommended.
Designed to familiarize students with operating principles and characteristics of basic electronic testing equipment as well as advanced specialized measuring instruments. Methods of operation and calibration of these devices are covered including on overview of Automated Test Equipment (ATE) systems. (F) (GR)
EL 136 Electronic Measurement and Instrumentation Lab 2 units
Acceptable for credit: CSU
Prerequisite: EL122, EL 123, 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,S) (GR/P/NP)

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 139 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, flers, 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 0.5-10 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)

EMS 102 First Aid & Safety 3 units
Acceptable for credit: CSU, UC
Prepares the student to recognize and react as "layperson responder" in assisting victims of accident or sudden illness. Students receive certification in First Aid and CPR. Not open to students who have completed PE 102. (F,S,U) (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 3 times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”
EMERGENCY MEDICAL SERVICES 144  EMERGENCY MEDICAL SERVICES

EMS 300 Intro to Emergency Medical Services 0.5 unit
An exploration of the academic and interpersonal expectations required for successful completion of an entry-level EMS academy training program. (F,S) (GR)

EMS 301 EMS Academy 1A (EMT) 5 units
Course may be repeated 99 times
Prerequisite: EMS 300 and EMS 306
This beginning-level academy module meets the US Department of Transportation EMT-Basic National Standard Curriculum for students desiring eligibility for certification. State certification as an EMT-1 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 materials will be required. (F,S,U) (GR/P/NP)

EMS 302 EMS Academy 1B (Advanced) 7 units
Prerequisite: Completion of or concurrent enrollment in EMS 301. Corequisite: LE 341
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 and physical fitness and agility training. An academy uniform, gym suit and related materials will be required. (F,S,U) (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) (GR/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 healthcare 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. May be repeated as necessary to maintain certification. (F,S) (GR/P/NP)

EMS 307 Wilderness 1st Aid & Survival 2 units
Prerequisite: Completion of or concurrent enrollment in EMS 300 and EMS 306
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,U) (GR/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 1 year) and a CA Child Care First Aid certificate (valid for 2 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 317 Advanced ICS 1st Responders ICS-470 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 304. (F,S) (GR/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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EMS 321</td>
<td>Advanced Cardiac Life Support</td>
<td>1</td>
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<tr>
<td></td>
<td>Course may be repeated 99 times</td>
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<td></td>
<td>Presents 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)</td>
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<tr>
<td>EMS 322</td>
<td>Pediatric Advanced Life Support</td>
<td>1</td>
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<td>Course may be repeated 99 times</td>
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<td></td>
<td>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)</td>
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<tr>
<td>EMS 325</td>
<td>Lifeguard Certification</td>
<td>2</td>
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<td>Course may be repeated 99 times</td>
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<td>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)</td>
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<tr>
<td>EMS 328</td>
<td>Wilderness EMS-Wilderness Travel</td>
<td>1.5</td>
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<td>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)</td>
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<tr>
<td>EMS 333</td>
<td>Paramedic Theory</td>
<td>10</td>
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<td>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)</td>
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<tr>
<td>EMS 337</td>
<td>Wilderness EMS Aircraft</td>
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<td>A study of the basic skills required to perform safe and effective aircraft search techniques during a 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)</td>
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<tr>
<td>EMS 338</td>
<td>Land Navigation</td>
<td>1.5</td>
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<td>A study of mapping and GPS skills as applied to fire, Haz-Mat 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)</td>
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<tr>
<td>EMS 343</td>
<td>Paramedic Clinical Laboratory</td>
<td>7.5</td>
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<td>Prerequisite: EMS 333, current CPR certification for health care provider or professional rescuer</td>
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<td>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)</td>
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<tr>
<td>EMS 347</td>
<td>Search &amp; Rescue Management</td>
<td>2</td>
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<td>A study of the basic skills needed to effectively manage a wilderness/remote area search and rescue operation. (F,S) (GR/P/NP)</td>
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<tr>
<td>EMS 350</td>
<td>Essentials of Search &amp; Rescue</td>
<td>3</td>
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<td>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)</td>
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<tr>
<td>EMS 353</td>
<td>Paramedic Field Internship</td>
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<td>Prerequisite: EMS 343, current CPR certification for health care provider or professional rescuer</td>
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<td>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)</td>
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<tr>
<td>EMS 360</td>
<td>Man Tracking 1</td>
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<td>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 8 hours of CEUs for EMT-1 and paramedics are available. (S) (GR/P/NP)</td>
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<tr>
<td>EMS 362</td>
<td>Man Tracking 2</td>
<td>0.5</td>
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<td>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 footgear. POST certified and 8 hours of CEUs for EMT-1 and paramedics are available. (S) (GR/P/NP)</td>
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<tr>
<td>EMS 378</td>
<td>EMT Wilderness Transition</td>
<td>2.5</td>
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<td>Prerequisite: Current EMT-1 certification and professional rescuer or health care provider CPR certification. 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>
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</tbody>
</table>
### EMS 388 Searching with K-9 Teams 2.5 units
An introduction to the history and training techniques of the canine (K-9) search and rescue team. Skills used to assist the K-9 handler in the wilderness and remote areas will be covered. (F,S) (GR/P/NP)

### EMS 401 EMT 1 (Basic) Refresher 1.5 units
Course may be repeated 99 times
Prerequisite: EMT-1 Basic Certification within the past 4 years.
Satisfies the requirements set forth by Title 2, Division 9, of the California Code of Regulations for Emergency Medical Services. May be repeated as often as necessary for the purposes of certification. (F,S) (P/NP)

### EMS 407 Wilderness 1st Aid Refresher 0.5 unit
Course may be repeated 99 times
Prerequisite: EMS 307
Satisfies the requirements set forth by Title 2, Division 9, of the California Code of Regulations for Emergency Medical Services. May be repeated as often as necessary for the purposes of certification. (F,S) (GR/P/NP)

### EMS 408 Disaster Survival & Preparedness 0.5 unit
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)

### EMS 409 PHTLS Refresher 0.5 unit
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 8 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)

### EMS 410 EMT 1 Basic Skills Refresher Module A 0.5 unit
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 2, 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) (GR/P/NP)

### EMS 411 EMT 1 Basic Skills Refresher Module B 0.5 unit
Course may be repeated 99 times
A review of scene size-up, patient assessment and medical emergencies. Satisfies the requirements set forth by Title 2, 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) (GR/P/NP)

### EMS 412 EMT 1 Basic Skills Refresher Module C 0.5 unit
Course may be repeated 99 times
A review of environmental emergencies and trauma. Satisfies the requirements set forth by Title 2, 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) (GR/P/NP)

### EMS 413 EMT 1 Basic Skills Refresher Module D 0.5 unit
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 2, 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) (GR/P/NP)

### EMS 414 ACLS Refresher 0.5 unit
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 8 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)

### EMS 415 PALS Refresher 0.5 unit
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 8 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)

### EMS 416 Child Care First Aid & CPR Refresher 0.5 unit
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)

### EMS 461 Medical First Responder Update 0.5 unit
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)

### ENGR 100 Intro to Engineering 1 unit
**Acceptable for credit: CSU, UC**
Advisory: Concurrent enrollment in ENGL 300 or eligibility for ENGL 101
This course provides an overview of the engineering profession and educational path in order for students to evaluate engineering as a career choice. The course is also applicable for science, mathematics and architecture majors. The engineering branches are introduced, along with their relationships to science and other fields of study. The education process and strategies for engineering and
science students to reach their full academic potential are explored. Course topics include professional duties, responsibilities, employment opportunities, the engineering design process and problem solving. Students will develop a study plan and research technical topics. Guest speakers include working engineers and university representatives. 
(F,S) (GR/P/NP)

ENGR 124 Excel in Science/Engineering 1 unit
Acceptable for credit: CSU
Prerequisite: MATH 181
An introduction to Excel as used in science and engineering. Students use math operations, functions, statistics and graphs to analyze and display data and to differentiate and integrate. Basic application problems are solved. (F) (P/NP)

ENGR 126 Matlab for Science/Engineering 1 unit
Acceptable for credit: CSU, UC
Prerequisite: MATH 181
An introduction to Matlab as used in science and engineering. Students create and manipulate matrices, program scripts and m-files; generate 2-d and 3-d plots; and solve ODEs. Basic application problems are solved. (S) (P/NP)

ENGR 134 Internship Seminar 1 unit
Acceptable for credit: CSU, UC-DAT
Corequisite: ENGR 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)

ENGR149 Cooperative Work Experience: Occupational 1 to 8 units
Course may be repeated 3 times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”

ENGR 152 Statics 3 units
Acceptable for credit: CSU, UC
Prerequisite: MATH 182 and PHYS 161 or PHYS 141
An analysis of forces on engineering structures in equilibrium. Topics include properties of forces, moments, couples and resultants. Equilibrium conditions, trusses, frames, centroids, area moments of inertia, beams under point and distributed loads, shear and moment diagrams, cables and friction are covered. Engineering modeling and problem solving are emphasized. (F) (GR)

ENGR 154 Dynamics 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGR152 and MATH 182
An analytical study of the motions of particles and of rigid bodies. Topics include kinematics of particles in 2- and 3-dimensions including relative and constrained motion as well as kinetics of particles and systems of particles; equations of motion, energy and impulse-momentum methods; and collisions. Planar kinematics and kinetics of rigid bodies; absolute and relative motion, center of zero velocity; equations of motions, energy and impulse-momentum methods will also be covered. (S) (GR)

ENGR 156 Strength of Materials 4 units
Acceptable for credit: CSU, UC
Prerequisite: ENGR 152
A study of the stresses, strains and deformations associated with axial, torsional and flexural loading of bars, shafts and beams and pressure loading of thin-walled pressure vessels. The course covers stress and strain transformation, Mohr’s Circle, ductile and brittle failure theories and the buckling of rigid and deformable columns. Statically indeterminate systems are also studied. (S) (GR)

ENGR 161 Materials Science 3 units
Acceptable for credit: CSU, UC
Prerequisite: PHYS 161 and CHEM 150
An introduction to atomic bonding, crystalline structure and microstructure and how these structures determine the physical, mechanical, electrical and thermal properties of materials. The course covers metals, ceramics, polymers, composites and semiconductors. Topics include material imperfections, diffusion, mechanical properties, phase diagrams, material selection, processing, heat treatment and strengthening mechanisms. Corrosion phenomena, electrical properties and thermal properties are also covered. (S) (GR)

ENGR 162 Materials Science Lab 1 unit
Acceptable for credit: CSU, UC
Corequisite: ENGR 161
Laboratory to parallel ENGR 161. Experiments investigating crystalline structures, the mechanical behavior of metals and polymers, cold-working, heat-treatment, material hardness, ductile-to-brittle fracture behavior, fatigue, equilibrium phase diagrams, steel microstructure and corrosion are performed. Computers are used to control test equipment, gather and process data and visualize microscopic images. (S) (GR)

ENGR 170 Electric Circuit Analysis 3 units
Acceptable for credit: CSU, UC
Prerequisite: MATH 182 and PHYS 161
Corequisite: ENGR 171
Basic circuit analysis including circuit laws, resistive circuits, network theorems, op-amp circuits, capacitors and inductors; natural and forced response of RC, RL and RCL circuits, phasors, steady-state AC analysis, and AC power. (F) (GR)

ENGR 171 Electric Circuit Lab 1 unit
Acceptable for credit: CSU, UC
Prerequisite: MATH 182 and PHYS 161
Corequisite: 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. (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;
semiconductor 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"

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**ENGINEERING TECHNOLOGY**

ET 100 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)

ET 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 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 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 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 EL 131. (A) (GR/P/NP)

ET 133 Mechatronic Systems 1 3 units
Acceptable for credit: CSU
Prerequisite: ET 104, 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 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 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)
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Acceptable for Credit</th>
<th>Prerequisites</th>
</tr>
</thead>
</table>
| ET 160      | Digital Tools for Architecture                   | 3     | CSU                   | Advisary: 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     | 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   | 1-10  | CSU, UC-DAT            | For course description, see "Independent Projects." |
| ET 199, 399 | Special Topics in Engineering Technology         | 0.5-10| CSU, UC-DAT            | For course description, see "Special Topics." |
| ET 330      | Print Reading & Interpretation                   | 3     | CSU                   | 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, AB 330 or MT 330. (A) (GR/P/NP) |
| ET 381      | Industrial Mathematics                           | 3     | CSU                   | 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, AT 381, MT 381 or WLDT 381. (A) (GR) |
| ENGL 101    | Freshman Comp: Exposition                        | 4     | CSU, UC               | Prerequisite: A recommended placement based on the START process or ENGL 300 or ENGL 301  
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) (GR) |
| ENGL 102    | Freshman Comp: Literature                        | 3     | 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     | CSU                   | 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     | 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     | CSU, UC               | 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 ANTH 105. (F,S) (GR/P/NP) |
| ENGL 106    | Creative Writing                                 | 3     | CSU                   | Course may be repeated 1 time  
Prerequisite: ENGL 101  
An introduction to the writing of fiction and verse, offered as a creative outlet for students who like to write and as a step toward Greater writing proficiency. (F) (GR/P/NP) |
ENGL 107 Arts Magazine 1 3 units
Course may be repeated 1 time
Acceptable for credit: CSU
Advisory: Eligibility for ENGL 301
Offers the opportunity to create original works through reading assignments, class discussions and written responses to poetry and prose. Provides hands-on training in advertising, fund raising, manuscript selection and editing for a literary arts magazine. (F) (GR/P/NP)

ENGL 108 Arts Magazine 2 3 units
Course may be repeated 1 time
Acceptable for credit: CSU
Advisory: Eligibility for ENGL 301
Offers the opportunity to create original works through reading assignments, class discussions and written responses to poetry and prose. Provides hands-on training in advertising, fund raising, manuscript selection and editing for a literary arts magazine. (F) (GR/P/NP)

ENGL 109 Applied Composition 1.5 units
Acceptable for credit: CSU
Prerequisite: ENGL 101
Designed for students who are interested in tutoring or teaching English. Explores the theory and practice of expository writing with a particular emphasis on understanding how people acquire written language competency and on the skills needed to help in the development of these competencies in others. The lab component affords students the opportunity to observe English teaching and tutoring and to apply skills learned in the course in a supervised tutorial experience. (A) (GR/P/NP)

ENGL 110 Grammar for College & Career 3 units
Acceptable for credit: CSU
Prerequisite: ENGL 501 or eligibility for ENGL 300
Provides a comprehensive review of Grammar and mechanics for students who want to increase their understanding of the fundamentals of English. Students will learn to recognize Grammatical errors in their writing; to reduce the number of misspelled and misused words; and to write clear, correct and effective sentences. Students may wish to take this course prior to or concurrently with an English composition course. (A) (GR/P/NP)

ENGL 115 Writing Fiction 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
Advisory: ENGL 106
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 130 19th Century American Literature 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
Surveys American writers of the 19th century, particularly Poe, Hawthorne, Melville, Whitman, Dickinson, Twain and Crane. Either one or both semesters of American Literature partially fulfill the humanities requirement of the California State Colleges and Universities. (F,U) (GR/P/NP)

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: One semester of composition (ENGL 300, ENGL 301 or ENGL 101)
A study of poetry, folk and fairy tales, fiction, non-fiction 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  0.5-10 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 3 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 300 Composition Workshop  4 units  
Prerequisite: A recommended placement based on the START process or ENGL 501
Designed to prepare students for ENGL 101. Emphasizes writing as process and the relationship of reading strategies and writing skills in composition. Introduces the student to literature, focusing on how literature relates to the students' lives. (F,S,U) (P/NP)

ENGL 301 Composition: Literature & Media  3 units  
Prerequisite: A recommended placement based on the START process or ENGL 300
Designed to increase the non-transfer student's effectiveness in critical thinking, reading and writing. Students read and analyze newspapers, magazines, TV, films, short stories and poetry with special emphasis on written response. (F,S,U) (GR)

ENGL 306 Writing Laboratory  0.5 unit  
Course may be repeated 3 times
Corequisite: Enrollment in an Allan Hancock College credit course.
Provides students with individualized writing practice with computer-assisted strategies. Not open to students enrolled in ENGL 300, ENGL 501 or any other English course with a lab component. (F,S,U) (P/NP)

ENGL 501 Introduction to Language Arts  4 units  
Prerequisite: A recommended placement based on the START process
Designed to introduce students to the language arts through intensive reading, writing, speaking and listening, this course will help develop the critical thinking skills needed to become informed, responsible, successful students. Emphasizes the process approach to reading and writing and covers the basic study skills needed for success in college. The lab component offers students the opportunity to apply and further develop their reading, writing and study skills learned in the classroom. (F,S,U) (P/NP)

ENGL 506 Language Arts Studies 1  4.5 units
Limitation on enrollment: Placement on the CPT for reading and writing.
Provides instruction in reading, writing, critical thinking, speech/communication and personal development to prepare students for college curriculum. (F,S,) (P/NP)

ENGL 507 Language Arts Studies 2  4.5 units
Prerequisite: ENGL 506
Provides instruction in reading, writing, critical thinking, speech/communication and personal development to prepare students for college curriculum. (F,S,) (P/NP)
ENGLISH AS A SECOND LANGUAGE

ESL 531 Reading Skills 1 4 units
Prerequisite: Recommended placement based on the ESL START process.
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)

ESL 532 Writing Skills 1 4 units
Prerequisite: Recommended placement based on the ESL START process.
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)

ESL 534 Reading Skills 2 4 units
Prerequisite: ESL 531 or ENGL 531 or recommended placement based on the ESL START process
An intermediate course in reading English as a second language stressing reading at the paragraph and short textual level. Lab orientation required. (F,S) (P/NP)

ESL 535 Writing Skills 2 4 units
Prerequisite: ESL 532 or ENGL 532 or recommended placement based on the ESL START process
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)

ESL 537 Reading Skills 3 4 units
Prerequisite: ESL 534 or ENGL 534 or recommended placement based on the ESL START process
An intermediate course in reading English as a second language stressing reading at the paragraph and basic level. Lab orientation required. (F,S) (P/NP)

ESL 538 Writing Skills 3 4 units
Prerequisite: ESL 535 or ENGL 535 or recommended placement based on the ESL START process
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)

ESL 540 Reading Skills 4 4 units
Prerequisite: ESL 537 or ENGL 537 or recommended placement based on the ESL START process
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)

ESL 541 Writing Skills 4 4 units
Prerequisite: ESL 538 or ENGL 538 or recommended placement based on the ESL START process
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)

ESL 550 Grammar 1 3 units
A basic Grammar skills course for beginning to low intermediate level ESL students. Emphasis is on understanding and using elementary Grammatical forms in reading, writing and oral/aural contexts. (F,S) (P/NP)

ESL 551 Grammar 2 3 units
Advisory: ESL 550 or ENGL 550
An intermediate Grammar skills course for intermediate level ESL students. Emphasis is on understanding and using intermediate Grammatical forms in reading, writing and oral/aural contexts. (F,S) (P/NP)

ESL 552 Grammar 3 3 units
Advisory: ESL 551 or ENGL 551
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)

ESL 555 Pronunciation Skills 3 units
Advisory: Recommended placement in ESL 537, ESL 538, ESL 540 or ESL 541
A pronunciation skill-course for intermediate to advanced ESL students. (U) (P/NP)

ESL 560 Crossroads Café 1 3 units
The first level of a two-level course emphasizing oral comprehension skills for the non-native English language student. Using the multimedia curriculum of Crossroads Café, beginning students improve their English comprehension and think about ideas in their second language as they expand their vocabulary. (F,S) (P/NP)

ESL 561 Crossroads Café 2 3 units
The second level of a two-level course emphasizing oral expressive skills for the non-native English language student. Using the multimedia curriculum of Crossroads Café, intermediate to advanced students improve their English expression and state ideas in their second language as they expand their spoken vocabulary. (F,S) (P/NP)

ESL 562 Connect with English One 3 units
The first of a two-level course emphasizing oral comprehension skills for the non-native English language student. Using the multimedia curriculum of Connect with English, ESL students improve their English comprehension and expand their vocabulary. (F,S) (P/NP)

ESL 563 Connect with English Two 3 units
The second of a two-level course emphasizing oral comprehension skills for the non-native English language student. Using the multimedia curriculum of Connect with English, intermediate to advanced ESL students improve their English-speaking skills and expand their vocabulary. (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)
ENGLISH AS A SECOND LANGUAGE  153  ENVIRONMENTAL TECHNOLOGY

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)

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 BIOL 120. (GR/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) (GR/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 3 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 Haz Mat  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 Responder Op 16-Hr  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 910.120. (F,S) (GR/P/NP)
ENVIRONMENTAL TECHNOLOGY

ENV 157 First Aid for HazMat Workers  1.5 unit
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)

ENV 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))

ENV 159 Haz Mat/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 hazardous waste control law requirements on Certified Unified Program Agency (CUPA) regulations for facilities permitting and site management. (F,S) (GR/P/NP)

ENV 160 Air & Water Pollution Permit  2 units
Acceptable for credit:  CSU
Presents 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)

ENV 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)

ENV 399 Special Topics in Environmental Technology  0.5 to 3 units
For course description, see “Special Topics.”

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 Mngt & 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
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 120. (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,
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 301 or concurrent enrollment in ENGL 300 is strongly recommended.
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 301 or concurrent enrollment in ENGL 300 is strongly recommended.
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)

FCS 140 Apparel Construction 2 units
Course may be repeated 3 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.
Presents processes, principles and techniques for constructing woven garments with the single needle machine emphasizing current custom and industrial techniques, including fit and care. Introduces the fashion program and employment opportunities in the industry. (F,S,U) (GR/P/NP)

FCS 144 Historic Fashion/Costume 3 units
Acceptable for credit: CSU
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 to 8 units
Course may be repeated 3 times.
Acceptable for credit: CSU, UC-DAT
For course description, see “Cooperative Work Experience: Occupational.”

FCS 170 Interior Design 3 units
Acceptable for credit: CSU
Fundamentals of interior design and furnishings, including 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. Involves 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 units
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 units
179 - Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

FCS 189 Independent Projects in Family & Consumer Sciences 1 to 3 units
Course may be repeated 3 times
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

FCS 199, 399 Special Topics in Family & Consumer Sciences 0.5 to 3 units
199 - Acceptable for Credit: CSU, UC
For course description, see "Special Topics."
FCS 360 Fashion Design/Construction Lab 1 unit
Course may be repeated 3 times
Advisory: Completion of or concurrent enrollment in FCS 140
Projects are selected by the student and developed under the direct counseling and guidance of an instructor. Provides students with the practical application of industry, couture and costuming techniques to construct garments and develop the necessary occupational skills for successful employment. Emphasis is on comparative methods, techniques and equipment. Students may enroll for any combination of FCS 360 and FCS 361 for a total of four semesters. (F,S,U) (P/NP)

FCS 361 Fashion Design/Construction 0.5 unit
Course may be repeated 3 times
Advisory: Completion of or concurrent enrollment in FCS 140
Projects are selected by the student and developed under the direct counseling and guidance of an instructor. Provides students with the practical application of industry, couture and costuming techniques to construct garments and develop the necessary occupational skills for successful employment. Emphasis is on comparative methods, techniques, and equipment. Students may enroll for any combination of FCS 360 and FCS 361 for a total of four semesters. (F,S,U) (P/NP)

FILM

FILM 101 Film Art & Communication 3 units
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) ([GR/P/NP])

FILM 102 Hollywood & the American Film 3 units
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 units
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 1 3 units
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 1 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 108 Studio 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 109 Local Programming 2 units
Course may be repeated 1 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 scripting, directing, cinematography and non-linear editing. (S) (GR/P/NP)

FILM 110 Introduction to Motion Picture & Video Production 4 units
Acceptable for credit: CSU, UC-CL
An introduction to motion picture production, including direction, cinematography, acting and editing of film. Students will conduct research and pre-interviews, develop an outline, conduct on-camera interviews and shoot coverage shots. Topics include basic motion picture production techniques such as scripting, studio directing and non-linear editing. (F,S) (GR/P/NP)

FILM 111 Intermediate Motion Picture & Video Production 4 units
Course may be repeated 1 time
Acceptable for credit: CSU, UC-CL
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 scripting, studio directing and non-linear editing. (F,S) (GR/P/NP)

FILM 112 Studio Production 4 units
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 scripting, studio directing and non-linear editing. (F,S) (GR/P/NP)

FILM 114 Local Programming 2 units
Course may be repeated 3 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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FILM 115</td>
<td>Introduction to Animation</td>
<td>3</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td></td>
<td>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) (GR/P/NP)</td>
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<tr>
<td>FILM 116</td>
<td>Intermediate Animation</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td></td>
<td>Course may be repeated 3 times</td>
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<td></td>
<td><em>Prerequisite: ART 115, FILM 115 or MMAC 115</em></td>
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<td></td>
<td>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)</td>
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<tr>
<td>FILM 117</td>
<td>3D Computer Animation 1</td>
<td>3</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td></td>
<td>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)</td>
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<tr>
<td>FILM 118</td>
<td>3D Computer Animation 2</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td></td>
<td>Course may be repeated 1 time</td>
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<tr>
<td></td>
<td><em>Prerequisite: FILM 117</em></td>
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<td></td>
<td>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)</td>
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<tr>
<td>FILM 120</td>
<td>Introduction to Sound Recording &amp; Mixing</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td></td>
<td>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 mixdown situations. This course is not open to students who are enrolled in or have received credit for MUSC 115. (F,S) (GR/P/NP)</td>
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<tr>
<td>FILM 121</td>
<td>Sound Production Techniques</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td></td>
<td>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 MUSC 116. (S) (GR/P/NP)</td>
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<tr>
<td>FILM 123</td>
<td>Directing for the Camera</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td>Course may be repeated 3 times</td>
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<td></td>
<td>An opportunity for students interested in directing for film and television to develop or refine their skills. (F,S) (GR/P/NP)</td>
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<tr>
<td>FILM 125</td>
<td>Computer Video Editing</td>
<td>3</td>
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<td>Course may be repeated 1 time</td>
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<td></td>
<td><em>Acceptable for credit: CSU</em></td>
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<td></td>
<td>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 125. (F,S) (GR/P/NP)</td>
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<tr>
<td>FILM 126</td>
<td>Motion Graphics</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td>Advisory: GRPH 111 and GRPH 112 or FILM 125</td>
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<td>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) (GR/P/NP)</td>
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<tr>
<td>FILM 127</td>
<td>DVD Design &amp; Production</td>
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<td>Course may be repeated 1 time</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td>Advisory: FILM 125 and MMAC 125</td>
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<td></td>
<td>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)</td>
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<tr>
<td>FILM 128</td>
<td>Intermediate Motion Graphics</td>
<td>3</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<td>Advisory: FILM 126 and MMAC 126</td>
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<td></td>
<td>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)</td>
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<tr>
<td>FILM 179</td>
<td>Experimental Courses in Film</td>
<td>0.5-10</td>
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<td><em>Acceptable for credit: CSU, UC-DAT</em></td>
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<td>For course description, see &quot;Experimental Courses.&quot;</td>
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<td>FILM 189</td>
<td>Independent Projects in Film</td>
<td>1 to 3</td>
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<td><em>Acceptable for credit: CSU, UC-DAT</em></td>
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<td>For course description, see &quot;Independent Projects.&quot;</td>
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<tr>
<td>FILM 199</td>
<td>Special Topics in Film</td>
<td>0.5 to 3</td>
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<td><em>Acceptable for Credit: CSU, UC</em></td>
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<td>For course description, see “Special Topics”</td>
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<tr>
<td>FILM 380</td>
<td>Film Production Lab</td>
<td>1</td>
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<td>Course may be repeated 3 times</td>
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<td>Corequisite: FILM 110, FILM 111, FILM 112, FILM 113, FILM 116, FILM 117, FILM 118, FILM 120, 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)</td>
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<tr>
<td>FILM 381</td>
<td>Film Post Production Lab</td>
<td>1</td>
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<td>Course may be repeated 3 times</td>
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<td>Corequisite: FILM 114, FILM 125, FILM 126, 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)</td>
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</table>
FILM 386 Film Festival Production Lab 2 units
Course may be repeated 3 times
Provides an opportunity for students to plan for and produce the annual AHC Film Festival. This annual event provides the opportunity for Allan Hancock College 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 relates 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 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
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 3 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 307 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 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
Prerequisite: FT 320
Designed to provide the student with the information required to direct a fire company in the operations necessary to control a hazardous material emergency. The course emphasizes preplanning, identification and behavior of hazardous materials, resources, tactics and simulation exercises. (A) (GR)

FT 322 Fire Prevention 1A 2 units
Prerequisite: FT 320
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
Prerequisite: FT 322
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)

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
Prerequisite: FT 330 and WFT 302
Explains the role of the company officer in wildland/urban interface fire organization, safety and survival. (F,S,U) (GR)

FT 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 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 379 Experimental Courses in Fire Technology 0.5-10 units
For course description, see "Experimental Courses."

FT 399 Special Topics in Fire Technology 0.5 to 3 units
For course description, see "Special Topics"

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 health, fitness and disease. Included is a computerized diet analysis, an...
emphases 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 lab 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 lab 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 CulinoLoy® Professions 3 units**  
Acceptable for credit: CSU  
Advisory: ENGL 301  
Orientation to careers in dietetics, nutrition science, food science, culinary arts and management, hospitality, food service management and Culinology®. Career portfolios, professional organizations and publications will be covered. Educational plans will be developed in conjunction with counseling personnel. (F) (GR/P/NP)

**FSN 133 Introduction to Food Science 3 units**  
Acceptable for credit: CSU  
Prerequisite: CHEM 120

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**FOOD SCIENCE & NUTRITION 160**

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”

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**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 3 times  
Acceptable for credit: CSU, UC-DAT  
For course description, see "Independent Projects."

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**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)

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<thead>
<tr>
<th>GEOGRAPHY</th>
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<th>GEOLOGY</th>
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| **GEOG 101 Physical Geography** 3 units  
**Acceptable for credit:**  CSU, UC  
A survey of the earth's physical geography focusing on understanding it as a single interconnected system driven by solar energy. Covers the four basic subsystems (atmosphere, hydrosphere, lithosphere and biosphere), their relationships and interconnections and our human relationship to them.  (F,S)  (GR/P/NP) |  | **GEOG 179 Experimental Courses in Geography** 0.5-10 units  
**Acceptable for credit:**  CSU, UC  
For course description, see "Experimental Courses." |
| **GEOG 102 Human Geography** 3 units  
**Acceptable for credit:**  CSU, UC  
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 189 Independent Projects in Geography** 1 to 3 units  
**Acceptable for credit:**  CSU, UC-DAT  
For course description, see "Independent Projects."

<table>
<thead>
<tr>
<th>GEOLOGY</th>
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</table>
| **GEOL 100 Physical Geology** 4 units  
**Acceptable for credit:**  CSU, UC  
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** 0.5-10 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** 0.5 to 3 units  
**Acceptable for credit:**  CSU  
For course description, see “Special Topics” |  |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Acceptable for credit:</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRPH 108</td>
<td>Design 1 on the Computer</td>
<td>3</td>
<td>CSU</td>
<td>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)</td>
</tr>
<tr>
<td>GRPH 110</td>
<td>Intro to Graphic Design</td>
<td>3</td>
<td>CSU</td>
<td>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)</td>
</tr>
<tr>
<td>GRPH 111</td>
<td>Electronic Imagery Lab</td>
<td>1</td>
<td>CSU</td>
<td>Course may be repeated 1 time</td>
</tr>
<tr>
<td>GRPH 112</td>
<td>Basic Electronic Imagery</td>
<td>3</td>
<td>CSU</td>
<td>Introduces students to the use of computers in Graphic design, photography and video program development. Students will explore desktop publishing, photographic image manipulation and still video capture. (F,S) (GR/P/Nipomo)</td>
</tr>
<tr>
<td>GRPH 113</td>
<td>Computer Illustration</td>
<td>3</td>
<td>CSU</td>
<td>Corequisite: GRPH 111</td>
</tr>
<tr>
<td>GRPH 114</td>
<td>Computer Image Lab</td>
<td>1</td>
<td>CSU</td>
<td>Prerequisite: GRPH 113</td>
</tr>
<tr>
<td>GRPH 115</td>
<td>Graphics Art Preparation</td>
<td>3</td>
<td>CSU</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>GRPH 116</td>
<td>Digital Portfolio</td>
<td>3</td>
<td>CSU</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>GRPH 118</td>
<td>Intro to Web Graphics</td>
<td>3</td>
<td>CSU</td>
<td>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)</td>
</tr>
<tr>
<td>GRPH 120</td>
<td>Desktop/Commercial Repro</td>
<td>3</td>
<td>CSU</td>
<td>Advisory: GRPH 111 and GRPH 112</td>
</tr>
<tr>
<td>GRPH 130</td>
<td>3D Modeling for Product Design</td>
<td>3</td>
<td>CSU</td>
<td>Prerequisite: ART 110, PHTO 110, or GRPH 115</td>
</tr>
<tr>
<td>GRPH 160</td>
<td>Multimedia Lab</td>
<td>1</td>
<td>CSU</td>
<td>Course may be repeated 3 times</td>
</tr>
<tr>
<td>GRPH 179, 379</td>
<td>Experimental Courses in Graphics</td>
<td>0.5 to 10</td>
<td>CSU, UC-DAT</td>
<td>179 - Acceptable for credit: CSU, UC-DAT For course description, see &quot;Experimental Courses.&quot;</td>
</tr>
<tr>
<td>GRPH 189</td>
<td>Independent Projects in Graphics</td>
<td>1 to 3</td>
<td>CSU, UC-DAT</td>
<td>For course description, see &quot;Independent Projects.&quot;</td>
</tr>
<tr>
<td>GRPH 199</td>
<td>Special Topics in Graphics</td>
<td>0.5 to 3</td>
<td>CSU</td>
<td>For course description, see &quot;Special Topics.&quot;</td>
</tr>
</tbody>
</table>
HEALTH EDUCATION

HED 100 Health and Wellness 3 units
Acceptable for credit: CSU, UC
Designed to help students assess their health status and use those assessments to change the behaviors that contribute to an unhealthy lifestyle. Students are provided with a broad foundation of knowledge dealing with mental health, stress management, fitness, diet and weight control, prevention and control of communicable and non-communicable diseases, drugs and alcohol, first aid, cancer prevention and control and the scope of community health services. (F,S,U) (GR/P/NP)

HISTORY

HIST 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 HUM 101. (S) (GR/P/NP)

HIST 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 Hum 102. (S) (GR/P/NP)

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. (F,S,U) (GR/P/NP)

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 major 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. (F,S) (GR/P/NP)

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. (F,S) (GR/P/NP)

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. (F,S) (GR/P/NP)

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 origins and Growth since the Civil War. (F,S,U) (GR/P/NP)

HIST 118 U S History 3 units
Acceptable for credit: CSU, UC-CL
A brief survey of United States history (New World exploration to the present) and its method of research through critical thinking involving the economic, political, international and ethnic factors fundamental for understanding the nation's origins and Growth. (F,S,U) (GR/P/NP)

HIST 119 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. (F,S) (GR/P/NP)

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 0.5-10 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."
HUMANITIES

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. (F,S,U) (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)

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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,U) (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  0.5-10 units
Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

HUM 189 Independent Projects in Humanities  1 to 3 units
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

HUMAN SERVICES

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
Introduction to counseling skills for the human services paraprofessional with applications to different work settings and diverse populations. (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)

HUSV 104 Group Dynamics  3 units
Acceptable for credit: CSU
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)

HUSV 105 Fieldwork Supervision  2 units
Course may be repeated 3 times
Acceptable for credit: CSU
Corequisite: HUSV 120, HUSV 130, HUSV 140, HUSV 150 or HUSV 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)

HUSV 106 Family Systems, Addiction & Trauma  3 units
Acceptable for credit: CSU
A survey of strategies and approaches for working in human service settings with clients who are culturally, ethnically and physically diverse. (F,S) (GR/P/NP)

HUSV 107 Serving Culturally Diverse Clients  3 units
Acceptable for credit: CSU
Examines America's diverse population and its impact within human services. It provides students with the insight, knowledge and skills necessary to work with a diverse clientele effectively. (F,S) (GR)
<table>
<thead>
<tr>
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<th>Units</th>
<th>Acceptable for credit: CSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSV 108</td>
<td>Crisis Intervention</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUSV 110</td>
<td>Alcohol, Drugs &amp; Addiction</td>
<td>3</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 111</td>
<td>Addiction Treatment &amp; Recovery</td>
<td>3</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 113</td>
<td>Women &amp; Addiction</td>
<td>3</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 120</td>
<td>Human Services Fieldwork</td>
<td>2</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 121</td>
<td>Fieldwork Supervision - Human Services</td>
<td>2</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 122</td>
<td>States of Consciousness</td>
<td>3</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 124</td>
<td>Substance Abuse Prevention</td>
<td>3</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 126</td>
<td>Meditation/Mindfulness/Relaxation</td>
<td>3</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 127</td>
<td>Emotional Intelligence</td>
<td>3</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 128</td>
<td>Positive Psychology</td>
<td>3</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 130</td>
<td>Addiction Studies Fieldwork</td>
<td>2-4</td>
<td>Acceptable for credit: CSU</td>
</tr>
<tr>
<td>HUSV 131</td>
<td>Fieldwork Supervision–Addiction Studies</td>
<td>2</td>
<td>Acceptable for credit: CSU</td>
</tr>
</tbody>
</table>

- **HUSV 108 Crisis Intervention**: Training in basic crisis intervention skills and application of those 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)

- **HUSV 110 Alcohol, Drugs & Addiction**: 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)

- **HUSV 111 Addiction Treatment & Recovery**: A survey of the theory, practice and process of addiction treatment. (F,S) (GR)

- **HUSV 113 Women & Addiction**: 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. (F) (GR/P/NP)

- **HUSV 120 Human Services Fieldwork**: Corequisite: Concurrent enrollment in HUSV 105 or HUSV 121

- **HUSV 121 Fieldwork Supervision - Human Services**: Corequisite: HUSV 120

- **HUSV 122 States of Consciousness**: 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)

- **HUSV 124 Substance Abuse Prevention**: 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)

- **HUSV 126 Meditation/Mindfulness/Relaxation**: 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)

- **HUSV 127 Emotional Intelligence**: 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**: 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 Fieldwork**: Course may be repeated 1 time

- **HUSV 131 Fieldwork Supervision–Addiction Studies**: Corequisite: Concurrent enrollment in HUSV 105 or HUSV 131

- **HUSV 132 Fieldwork Supervision–Addiction Studies**: Corequisite: HUSV 130

- **HUSV 133 Fieldwork Supervision–Addiction Studies**: Corequisite: HUSV 131
HUSV 132 Drugs, the Brain and the Body 3 units
Acceptable for credit: CSU, UC
Advisory: HUSV 110, 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 Fieldwork 2 units
Acceptable for credit: CSU
Corequisite: Concurrent enrollment in HUSV 105 or HUSV 141
Advisory: Satisfactory completion of all core classes in the degree or certificate

Cooperative education fieldwork in a private or public agency for students seeking the degree or certificate in co-occurring disorders fieldwork. (F,S) (GR)

HUSV 141 Fieldwork Supervision – Co-occurring Disorders 2 units
Acceptable for credit: CSU
Corequisite: HUSV 140
Advisory: HUSV 105

Provides students with a seminar format in which to discuss, analyze and critically evaluate their fieldwork experience in local human services agencies as it relates to co-occurring disorders. Designed for the student who has completed HUSV 105 or who is concurrently enrolled in HUSV 105 and completing an additional program option. (F,S) (GR)

HUSV 142 Co-occurring Disorders: Engagement 3 units
Acceptable for credit: CSU

Concepts, definitions and features of dual diagnosis/co-occurring disorders; human services and treatment needs of persons with both a psychiatric disorder and an alcohol or other drug use disorder; and identification and assessment of these individuals. 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 management and treatment of persons with 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,S) (GR/P/NP)

HUSV 148 Coping with Emergency Response 3 units
Acceptable for credit: CSU

A study of psychological and interpersonal issues confronting emergency response personnel and their clients during emotionally challenging situations involving Gross physical injury and trauma as a result of violent crime, death, substance abuse or intoxication and psychological emergencies. (F,S) (GR/P/NP)

HUSV 150 Family Studies Fieldwork 2 units
Acceptable for credit: CSU
Corequisite: Concurrent enrollment in HUSV 105 or HUSV 151.
Advisory: Satisfactory completion of all core classes in the degree or certificate

Cooperative education fieldwork in a private or public agency for students seeking the degree or certificate in family studies fieldwork. (F,S) (GR)

HUSV 151 Fieldwork Supervision – Family Studies 2 units
Acceptable for credit: CSU
Corequisite: HUSV 150
Advisory: HUSV 105

Provides students with a seminar format in which to discuss, analyze and critically evaluate their fieldwork experience in local human services agencies as it relates to family studies. Designed for the student who has completed HUSV 105 or who is concurrently enrolled in HUSV 105 and completin an additional program option. (F,S) (GR)

HUSV 160 Family Services Worker 2 Fieldwork 2 units
Acceptable for credit: CSU
Corequisite: Concurrent enrollment in HUSV 105 or HUSV 161
Advisory: Satisfactory completion of all core classes in the degree or certificate

Cooperative education fieldwork in a private or public agency for students seeking the degree or certificate in family services worker 2 fieldwork. (F,S) (GR)

HUSV 161 Fieldwork Supervision-Family Services Workers 2 2 units
Acceptable for credit: CSU
Corequisite: Human Services 160
Advisory: HUSV 105

Provides students with a seminar format in which to discuss, analyze and critically evaluate their fieldwork experience in local human services agencies as it relates to the family services worker 2 certificate. Designed for the student who has completed HUSV 105 or who is concurrently enrolled in HUSV 105 and completing an additional program option. (F,S) (GR/P/NP)

HUSV 179 Experimental Courses in Human Services 0.5-10 units
Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

HUSV 189 Independent Projects in Human Services 1 to 3 units
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 3 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)

INTERDISCIPLINARY STUDIES

IDST 300 Being A Successful Online Student 1 unit
Acceptable for credit: CSU

Designed to prepare students for hybrid/online courses at Hancock College. Use of Blackboard, AHC’s online delivery platform, is emphasized, along with the various skills necessary to be a successful online student. This is a hands-on, self-paced course with flexible hours.
(A) (GR/P/NP)

INTERNATIONAL STUDIES

IS 141 Global Economics 3 units
Acceptable for credit: CSU, UC

Advisory: Completion or concurrent enrollment in ECON 101, ECON 102, 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,U) (GR/P/NP)

ITALIAN

ITAL 101 Elementary Italian 5 units
Acceptable for credit: CSU, UC
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) (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 3 times
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

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 3 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
Prerequisite: AJ 111, AJ 305, AJ 306 and (AJ 320, LE 320, AJ 322 or LE 322)
Provides field officers with advanced knowledge and skills for investigating traffic collisions. Emphasizes documenting information and evidence at the collision scene. Participants will learn and demonstrate in practical simulations effective procedures for conducting preliminary traffic collision investigations. (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 40-hour course provides student with the P.O.S.T. Field Training Officer requirements, training techniques and methodologies for officers assigned to train and supervise new field trainees. (GR)

LE 352 Basic Law Enforcement Academy Update 1.5 units
Prerequisite: AJ 320, LE 320, AJ 322 or LE 322
Provides field officers with advanced knowledge and skills for investigating traffic collisions. Emphasizes documenting information and evidence at the collision scene. Participants will learn and demonstrate in practical simulations effective procedures for conducting preliminary traffic collision investigations. (F, S) (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 tri-annual 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 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
Prerequisite: AJ 111, AJ 305, AJ 306, and (AJ 320 or LE 320 or AJ 322 or LE 322)
Provides advanced instruction and hands-on application in photographing, protecting and processing crime scenes as well as associated physical evidence. (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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>LE 358</td>
<td>Drug Abuse Recognition</td>
<td>1.5</td>
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<tr>
<td>LE 360</td>
<td>Arrest &amp; Control/EVOC</td>
<td>0.5</td>
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<tr>
<td>LE 361</td>
<td>Force Options Simulator/EVOC</td>
<td>0.5</td>
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<tr>
<td>LE 362</td>
<td>LE Driving Simulator/EVOC</td>
<td>0.5</td>
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<tr>
<td>LE 363</td>
<td>Force Ops Sim/Arrest &amp; Control</td>
<td>0.5</td>
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<tr>
<td>LE 364</td>
<td>LE Driving Sim/Arrest &amp; Control</td>
<td>0.5</td>
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<tr>
<td>LE 365</td>
<td>LE Driving Sim/Force Ops Sim</td>
<td>0.5</td>
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<tr>
<td>LE 366</td>
<td>EVOC</td>
<td>0.5 or 1</td>
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<tr>
<td>LE 367</td>
<td>Arrest &amp; Control</td>
<td>0.5 or 1</td>
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<tr>
<td>LE 368</td>
<td>Arrest &amp; Control Instructor Update</td>
<td>1.5</td>
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<tr>
<td>LE 371</td>
<td>Arrest &amp; Control Instructor Cert</td>
<td>2.5</td>
</tr>
</tbody>
</table>

- **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
  -限行 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. On-the-track driving and driving simulators are used. 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/Arrest & 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/Arrest & 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. Driving and force option simulators will be used. 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 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 officer.
  - 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 379, 479 Special Topics in Law Enforcement 0.5 to 10 units
For course description, see “Experimental Courses.”

LE 421 Complaint Dispatcher 4.5 unit
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 unit
Limitation on enrollment: Freedom from illness or disability that would prevent the student from safely participating in 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 unit
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)

LDER 111 Principles & Practices of Student Government 3 units
Course may be repeated 1 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 Prac/App of Leadership Princip 3 units
Course may be repeated 1 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)

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. (P/NP)

LS 189 Independent Projects 1 units
Course may be repeated 3 time(s)
Acceptable for credit: CSU, UC
For course description, see “Independent Projects.”
MT 179, 379 Experimental Courses in Machine Technology 0.5-10 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 3 times
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

MT 305 Select Machine Projects 2 units
Course may be repeated 2 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 315 Advanced Machining 4 units
Course may be repeated 7 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, 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, 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, AT 381, ET 381, or WLDT 381. (F,S) (GR)

MATH 100 Nature of Modern Mathematics 3 units
Acceptable for credit: CSU
Prerequisite: MATH 331
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
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
MATH 121 Trigonometry  3 units
Acceptable for credit: CSU
Prerequisite: MATH 321 and MATH 331
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,U) (GR)

MATH 123 Elementary Statistics  4 units
Acceptable for credit: CSU, UC - CL
Prerequisite: MATH 331
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
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 - Credit limitation
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 - Credit limitation
Prerequisite: MATH 321 and MATH 331
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 314
Advisory: MATH 331
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 to solve equations and inequalities, including applications. Topics covered include the real numbers, linear equations and inequalities, graphing,
<table>
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<tr>
<th>Course Code</th>
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<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 311 Algebra 1: Part 1</td>
<td>3 units</td>
<td></td>
<td>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: graphing, polynomials, factoring, quadratic equations, applications and learning skills. Not open to students who are enrolled in or have completed MATH 311. (F) (GR/P/NP)</td>
</tr>
<tr>
<td>MATH 312 First Year Geometry</td>
<td>3 units</td>
<td></td>
<td>A study of basic geometry principles including constructions, congruence, parallels, right triangles, similarity, circles and proofs. (F,S,U) (GR/P/NP)</td>
</tr>
<tr>
<td>MATH 313 Algebra 2</td>
<td>4 units</td>
<td></td>
<td>A continuation of the study of 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)</td>
</tr>
<tr>
<td>MATH 314 Algebra 1: Part 2</td>
<td>3 units</td>
<td></td>
<td>The second of a two-semester combination that is equivalent to MATH 311, this course is designed for students who desire a slower pace and more practice. Topics include 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)</td>
</tr>
<tr>
<td>MATH 315 Algebra 2: Part 1</td>
<td>3 units</td>
<td></td>
<td>The first of a two-semester combination that is equivalent to MATH 331, this course is designed for students who desire a slower pace and more practice. Topics include radicals, rational and radical expressions, complex numbers, nonlinear equations and inequalities, functions and their graphs, systems of equations. This course is not open to students who have completed or are enrolled in MATH 331. (S) (GR/P/NP)</td>
</tr>
<tr>
<td>MATH 316 Algebra 2: Part 2</td>
<td>3 units</td>
<td></td>
<td>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 and more practice and learning skills. Topics include radicals, rational and radical expressions, complex numbers, nonlinear equations and inequalities, functions and their graphs, systems of equations. This course is not open to students who have completed or are enrolled in MATH 331. (F) (GR/P/NP)</td>
</tr>
<tr>
<td>MATH 317 Pre-Algebra</td>
<td>3 units</td>
<td></td>
<td>Preparatory course to MATH 313. Prerequisite: MATH 315 or MATH 316. (S) (GR/P/NP)</td>
</tr>
<tr>
<td>MATH 318 Fundamentals of Arithmetic</td>
<td>4 units</td>
<td></td>
<td>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 by students. Students may proceed at their own pace as long as they maintain a minimum pace required to complete the course. Math Center assistance and video-taped lessons are available. This course is not open to students who are enrolled in or who have received credit for MATH 513 or MATH 514. (F,S,U) (GR/P/NP)</td>
</tr>
<tr>
<td>MATH 319 Fund Arithmetic: Part 1</td>
<td>2 units</td>
<td></td>
<td>The first of a two-semester combination that is equivalent to MATH 511, this course is designed for students who desire a slower pace and 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)</td>
</tr>
<tr>
<td>MATH 320 Fund Arithmetic: Part 2</td>
<td>2 units</td>
<td></td>
<td>The second half of a two-semester combination that is equivalent to MATH 511, this course is designed for students who desire a slower pace and 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)</td>
</tr>
<tr>
<td>MATH 321 Pre-Algebra</td>
<td>3 units</td>
<td></td>
<td>Preparing students for the algebra sequence and updates mathematical skills for personal, career or academic advancement. Topics include: use of 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; solving linear equations. (F,S,U) (GR/P/NP)</td>
</tr>
<tr>
<td>MATH 322 Pre-Algebra</td>
<td>3 units</td>
<td></td>
<td>Preparing students for the algebra sequence and updates mathematical skills for personal, career or academic advancement. Topics include: use of 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; solving linear equations. (F,S,U) (GR/P/NP)</td>
</tr>
<tr>
<td>MATH 323 Pre-Algebra</td>
<td>3 units</td>
<td></td>
<td>Preparing students for the algebra sequence and updates mathematical skills for personal, career or academic advancement. Topics include: use of 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; solving linear equations. (F,S,U) (GR/P/NP)</td>
</tr>
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<td>MATH 324 Pre-Algebra</td>
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<td>Preparing students for the algebra sequence and updates mathematical skills for personal, career or academic advancement. Topics include: use of 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; solving linear equations. (F,S,U) (GR/P/NP)</td>
</tr>
<tr>
<td>MATH 325 Pre-Algebra</td>
<td>3 units</td>
<td></td>
<td>Preparing students for the algebra sequence and updates mathematical skills for personal, career or academic advancement. Topics include: use of 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; solving linear equations. (F,S,U) (GR/P/NP)</td>
</tr>
</tbody>
</table>
### Medical Assisting

Medical Assisting consist 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 California Codes-Business Professions Code Section 2068-2071) and will be required by the clinical agencies to have 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 (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 149 Cooperative Work Experience: Occupational**

- 1 to 8 units
- Course may be repeated 3 times.
- Acceptable for credit: CSU, UC-DAT
- For course description, see “Cooperative Work Experience: Occupational.”

**MA 305 Body Systems And Disease**

- 5 units
- A study of medical terminology, anatomy, physiology, pathophysiology, diagnostic testing and treatment modalities. (GR)

**MA 305 MA Fundamentals**

- 2 units
- Prerequisite: ENGL 300, MATH 531, and CBIS 101 and BUS 107.
- Corequisite: MA 305 and MA 351
- 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.
- Introduces the medical assisting profession including aspects of the work environment, laws that govern the profession, code of ethics, multicultural issues, communication techniques and the profession characteristics that enable the medical assistant to be a successful member of a health care team. Study skills, critical thinking, and basic pharmacological math are also included. (GR)

**MA 351 MA Clinical Procedures 1**

- 3 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 prepare the student to assist the doctor in selected phases of clinical procedures. Emphasizes asepsis, physical examination, screening practices, including care and use of equipment. (GR)

**MA 352 MA Administrative 1**

- 4 units
- Prerequisite: ENGL 300, MATH 331 and CBIS 101
- 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. (GR)

**MA 353 MA Clinical Procedures 2**

- 5 units
- Prerequisite: MA 350.
- Corequisite: MA 354, MA 355, and MA 356
- 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 the student with opportunity to develop skills required to perform medical office laboratory procedures and assist with medical office surgical procedures. (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 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.
- Office management functions including human resource management, leases, legal liability, office safety standards and ordering of supplies and equipment. (GR)

**MA 555 MA Pharmacology**

- 4 unit
- 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. (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.
**MEDICAL ASSISTING**

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. (P/NP)

**MA 360 Medical Billing & Insurance** 4 unit  
Prerequisite: 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. (GR)

**MA 361 Coding for Medical Insurance** 3 unit  
Prerequisite: MA 360  

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**MULTIMEDIA ARTS AND COMMUNICATIONS**

**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 1 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: GRPH 108 or ART 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: MMAC 112 or GRPH 118  
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 MMAC 111.  
(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  
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 1 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 125.  
(F,S) (GR/P/NP)

**MMAC 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 compositing 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)
<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE NAME</th>
<th>UNITS</th>
<th>PREREQUISITES/DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMAC 127</td>
<td>DVD Design &amp; Production</td>
<td>3</td>
<td>Acceptable for credit: CSU&lt;br&gt;Advisory: FILM 125 or MMAC 125&lt;br&gt;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 Film 127. (S) (GR/P/NP)</td>
</tr>
<tr>
<td>MMAC 128</td>
<td>Intermediate Motion Graphics</td>
<td>3</td>
<td>Acceptable for credit: CSU&lt;br&gt;Advisory: FILM 126 or MMAC 126&lt;br&gt;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)</td>
</tr>
</tbody>
</table>
| MMAC 189    | Independent Projects in Multimedia Arts & Communication | 1 to 3 | Course may be repeated 3 times<br>Acceptable for credit: CSU; UC-DAT<br>For course description, see "Independent Projects."
<p>| MMAC 190    | Topics in Multimedia Arts &amp; Communication            | 0.5 to 3 | Acceptable for credit: CSU&lt;br&gt;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     | Corequisite: MMAC 112 or MMAC 114&lt;br&gt;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     | Corequisite: MMAC 101, MMAC 114 or GrPH 114&lt;br&gt;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     | Corequisite: MMAC 125, MMAC 126 or MMAC 127&lt;br&gt;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     | Acceptable for credit: CSU, UC&lt;br&gt;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     | Acceptable for credit: CSU, UC&lt;br&gt;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     | Acceptable for credit: CSU, UC&lt;br&gt;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 &amp; Jazz                            | 3     | Acceptable for credit: CSU, UC&lt;br&gt;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     | Acceptable for credit: CSU, UC&lt;br&gt;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. This course is not open to students currently enrolled in or who have received credit for DRMA 105, DANC 105 or FILM 104. (F,S) (GR/P/NP) |
| MUS 106     | World Music Appreciation                             | 3     | Acceptable for credit: CSU, UC&lt;br&gt;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) |
| MUS 110     | Music Fundamentals                                   | 2     | Acceptable for credit: CSU, UC&lt;br&gt;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                                       | 4     | Acceptable for credit: CSU, UC&lt;br&gt;Advisory: Students who cannot read music are advised to take MUS 110&lt;br&gt;A comprehensive course dealing with the basic fundamentals of pitch and rhythmic notation, sight singing, ear training, one-part melodic dictation, intervals, modes, scales, key signatures, triads, seventh chords, 4-part chord construction, voicing and progression, elementary figured bass and traditional harmonic analysis, non-harmonic tones and traditional musical forms. (F) (GR/P/N) |
| MUS 112     | Music Theory 2                                       | 4     | Acceptable for credit: CSU, UC&lt;br&gt;Prerequisite: MUS 111&lt;br&gt;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, 4-part voice leading technique, secondary dominants, common chord modulation, sequences, advanced Roman numeral and figured bass analysis techniques. (S) (GR/P/NP) |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite/Advisory</th>
<th>Acceptable for Credit</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 113</td>
<td>Music Theory 3</td>
<td>4</td>
<td>MUS 112</td>
<td>CSU, UC</td>
<td>Provides the opportunity for the student to apply and refine the sound synthesis skills introduced in MUS 118. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>MUS 114</td>
<td>Music Theory 4</td>
<td>4</td>
<td>MUS 113</td>
<td>CSU, UC</td>
<td>Provides the opportunity for the student to apply and refine the sound synthesis skills introduced in MUS 118. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>MUS 115</td>
<td>Intro Sound Record &amp; Mix</td>
<td>3</td>
<td>MUS 115 or FILM 120</td>
<td>CSU</td>
<td>Provides the opportunity for the student to apply and refine the sound synthesis skills introduced in MUS 118. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>MUS 116</td>
<td>Sound Production Techniques</td>
<td>3</td>
<td>MUS 115 or FILM 120</td>
<td>CSU</td>
<td>Provides the opportunity for the student to apply and refine the sound synthesis skills introduced in MUS 118. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>MUS 117</td>
<td>MIDI Technology &amp; Applications</td>
<td>3</td>
<td>MUS 115</td>
<td>CSU</td>
<td>Provides the opportunity for the student to apply and refine the sound synthesis skills introduced in MUS 118. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>MUS 118</td>
<td>Intro to Electronic Music</td>
<td>3</td>
<td>MUS 115</td>
<td>CSU</td>
<td>Provides the opportunity for the student to apply and refine the sound synthesis skills introduced in MUS 118. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Electronic Music Technique</td>
<td>1</td>
<td>MUS 118</td>
<td>CSU</td>
<td>Provides the opportunity for the student to apply and refine the sound synthesis skills introduced in MUS 118. (F,S) (GR/P/NP)</td>
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<td>Course Code</td>
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<tr>
<td>MUS 119 Classical Guitar</td>
<td>A continuation of MUS 118 covering technical problems, scales, chording, sight reading, fundamentals of technique and the interpretation of guitar literature within the ability of each student.</td>
<td>1</td>
<td>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.</td>
<td>Ability to play appropriate instrument and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 120 Intermediate Chorale</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 121 Concert Band</td>
<td>The study of concert band literature with an emphasis on large works and transcriptions from the Renaissance and Baroque period, techniques of ensemble performance and rehearsal techniques. There will be several public performances.</td>
<td>1</td>
<td>Course may be repeated 3 times</td>
<td>Ability to play appropriate instrument and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 122 Vocal Repertoire</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 123 Masterworks Chorale</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 124 Vocal Ensemble</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 125 Intermediate Choral</td>
<td>A study of standard vocal repertoire with an emphasis on solo and small ensemble literature. Students practice</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 126 Intermediate Guitar</td>
<td>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.</td>
<td>1</td>
<td>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.</td>
<td>Ability to play appropriate instrument and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 127 Vocal Repertoire</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 128 Intermediate Choral</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 129 Vocal Ensemble</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 130 Mixed Ensemble</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 131 Chamber Voices</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 132 Masterworks Chorale</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 133 Chamber Voices</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 134 Intermediate Choral</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 135 Vocal Ensemble</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 136 Intermediate Choral</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 137 Concert Chorale</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 138 Vocal Ensemble</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 139 Intermediate Choral</td>
<td>Course may be repeated 3 times</td>
<td>2</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
<tr>
<td>MUS 140 Symphonic Band</td>
<td>Course may be repeated 3 times</td>
<td>1</td>
<td>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.</td>
<td>Ability to sing and read music.</td>
<td>CSU, UC</td>
</tr>
</tbody>
</table>
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 (Nursing 101 through 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 BIO 124, BIO 125, BIO 128, PSY 101, MATH 311 and ENGL 101.

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 completing this option is NOT a Graduate of the Allan Hancock Nursing program or the college. Applicants to this curriculum alternative must meet with the program director for advisement.

NURS 101 Foundations for Caring 2 units
Acceptable for credit: CSU
Introduces caring as the essence of nursing. Foundational concepts include communication, teaching/learning, nursing process, lifespan and how a diverse population needing health care services affects these concepts. Self-care principles are introduced with a focus on personal cultural differences, attitudes and biases. Surveys historical, social and legal aspects of nursing, emphasizing critical thinking, non-biased patient advocacy and caring in a multicultural society. (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
Prerequisite: Successful completion of first semester nursing courses. Corequisite: Enrollment in second semester nursing courses.
Provides training in leadership and management skills necessary for beginning nursing practice. Topics include ethics, legal-problem solving, decision making, change theory, assertiveness, organizational structure and role relationships. An overview of alternate health-care modalities and techniques for dealing with burnout and reality shock will be covered. (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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 110</td>
<td>Psychiatric Nursing</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 111</td>
<td>Intermediate Skills for Health Professionals</td>
<td>0.5</td>
</tr>
<tr>
<td>NURS 112</td>
<td>Advanced Skills for Health Professionals</td>
<td>0.5</td>
</tr>
<tr>
<td>NURS 180</td>
<td>RN Skills Lab</td>
<td>0.5</td>
</tr>
<tr>
<td>NURS 199</td>
<td>Special Topics in Nursing</td>
<td>0.5-3</td>
</tr>
<tr>
<td>NURS 310</td>
<td>Pharmacology</td>
<td>3</td>
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<tr>
<td>NURS 311</td>
<td>Medication Administration</td>
<td>1.5</td>
</tr>
<tr>
<td>NURS 317</td>
<td>Fundamentals of Nursing</td>
<td>3.5</td>
</tr>
<tr>
<td>NURS 318</td>
<td>Clinical Lab 1</td>
<td>8</td>
</tr>
<tr>
<td>NURS 320</td>
<td>Gerontology</td>
<td>2</td>
</tr>
<tr>
<td>NURS 322</td>
<td>Maternal &amp; Infant Health</td>
<td>2</td>
</tr>
<tr>
<td>NURS 323</td>
<td>Respiratory System</td>
<td>2</td>
</tr>
<tr>
<td>NURS 327</td>
<td>Gastrointestinal and Urinary</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 328</td>
<td>Clinical Lab 2</td>
<td>3</td>
</tr>
<tr>
<td>NURS 329</td>
<td>Endocrine &amp; Reproductive</td>
<td>2.5</td>
</tr>
<tr>
<td>NURS 330</td>
<td>Pediatrics</td>
<td>1.5</td>
</tr>
<tr>
<td>NURS 331</td>
<td>Circulatory System</td>
<td>2</td>
</tr>
<tr>
<td>NURS 332</td>
<td>Neurosensory System</td>
<td>2</td>
</tr>
</tbody>
</table>

**NURSING 101 Psychiatric Nursing**

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 Skills for Health Professionals**

Practices and hands-on skills testing at the registered nursing level in a caring environment. Nursing skills vary from intermediate to complex. Practice opportunities vary from highly structured to less structured simulated clinical situations. (S2) (GR)

**NURS 112 Advanced Skills for Health Professionals**

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 180 RN Skills Lab**

Supervised experience in selected practice areas using basic vocational nursing skills in the acute hospital and skilled nursing facility. (S1) (P/NP)

**Vocational Nursing Program (Nursing 310 through Nursing 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 through 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 310 Pharmacology**

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. (S1) (GR)

**NURS 311 Medication Administration**

Provides the knowledge and skills necessary for safe medication administration. (S) (GR)

**NURS 317 Fundamentals of Nursing**

Provides a foundation of theory and training necessary for the beginning student to perform basic nursing techniques and procedures safely and effectively. (S1) (GR)

**NURS 318 Clinical Lab 1**

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**

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**

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**

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)

**NURS 327 Gastrointestinal and Urinary**

Provides the theory and training necessary for the student to perform safe and effective nursing management for patients with disorders of the gastrointestinal and urinary systems. (F1) (GR)

**NURS 328 Clinical Lab 2**

Supervised experience in the acute hospital and out-patient care clinics in selected practice areas using intermediate Vocational Nursing student skills. (U) (P/NP)

**NURS 329 Endocrine & Reproductive**

Provides the foundations of safe and effective vocational nursing care of various disease processes of the endocrine and reproductive systems. (S1) (GR)

**NURS 330 Pediatrics**

Provides the theory and training necessary for the student to perform safe, effective vocational nursing care for children, ranging in age from neonate to adolescence. (U) (GR)

**NURS 331 Circulatory System**

Provides the theory and training necessary for the student to perform safe and effective vocational nursing care for patients with disorders of the circulatory system. (F1) (GR)

**NURS 332 Neurosensory System**

Provides the theory and training necessary for the student to perform safe, effective vocational nursing care for patients with disorders of the brain, spinal cord and the special senses of the eye and ear. (F1) (GR)
NURS 335 Integumentary/Musculoskeletal 2.5 units
An introductory course on the safe and effective vocational nursing care of patients/clients with health conditions affecting the integumentary and musculoskeletal systems. (S1) (GR)

NURS 337 Professional Relationships 1 unit
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)

NURS 338 Clinical Lab 3 8 units
Supervised experience in the acute hospital in selected practice areas using vocational nursing skills. (F1) (P/NP)

NURS 370 Intravenous Therapy 2 units
Prerequisite: Current California Vocational Nurse's or Registered Nurse's Licensure 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)

NURS 380 LVN Skills Lab 0.5 unit
Course may be repeated 2 times
Corequisite: Enrollment in the licensed vocational 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 399 Special Topics in Nursing 0.5 to 3 units
Lecture and/or lab as required by unit formula.
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 399 are not offered on a regular cycle (not within a two-year period). (A) (GR)

Nursing Assistant
The Nursing Assistant courses prepare the student to enter the field of nursing as a Certified Nursing Assistant/Acute Care Aide. Upon successful completion of the course, the student must successfully pass a written and skills test given by the State of California in order to become certified. Fees are involved. Admittance to the Nursing Assistant program requires an admission packet to be successfully completed prior to enrolling in the course.

NURS 400 CNA/Acute Care Aide 12 units
Prerequisite: CNA Nursing Exam 1 and English Placement Test with a score of 46 or higher
Prepares the student for employment in the long-term and acute care settings and successful completion of state board licensure requirement. (F/S) (GR)

NURS 416 Certified Home Health Aide 2 units
Limitation on enrollment: Completion of course admission packet. Prerequisite: CNA Nursing Exam 2
Prepares the certified nurse assistant to expand skills and meet the Home Health Aide state certification requirements. NURS 416 is not open to students have received credit for NURS 400. 26 CEUs will be offered. (U) (GR)

NURS 420 Restorative Aide 1.5 units
Limitation on enrollment: Completion of course admission packet. Prerequisite: CNA Nursing Exam 2
Prepares the certified nursing assistant to assist the resident in maintaining or promoting independence in the areas of mobility and performing activities of daily living. Upon successful completion, the student will receive a certificate of completion and will be qualified to work as a restorative aide in a long-term facility under the guidance of a licensed physical or occupational therapist or a licensed nurse. 26 CEUs will be offered. (U) (GR)

NURS 422 EKG/Monitor Observer 1.5 units
Limitation on enrollment: Completion of course admission packet. Prerequisite: CNA Nursing Exam 2
Prepares the medical professional to function as a monitor observer in a clinical area where patients receive cardiac monitoring. Basic electrocardiograph patterns and cardiac arrhythmias are learned. 24 CEUs will be offered. (U) (GR)

NURS 480 CNA Skills Lab 0.5 unit
Course may be repeated 2 times
Corequisite: Enrollment in the certified nursing assistant 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 499 Special Topics in Nursing 0.5 to 3 units
Lecture and/or lab as required by unit formula.
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 499 are not offered on a regular cycle (not within a two-year period). (A) (GR)

PD 100 Personal & Career Exploration 3 units
Acceptable for credit: CSU, UC
Provides in-depth career direction with an intensive exploration of one's own values, interests, abilities and an intensive career information search. Instruction includes self-paced materials, lecture, small group discussion, interviews and input from various campus departments. (GR/P/NP)

PD 101 Success in College 3 units
Acceptable for credit: CSU, UC
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 SI 101 or PD 105. (P/NP)
PD 102 Human Relationships 3 units
Acceptable for credit: CSU
An exploration of the dynamics of human relationships with an emphasis on a positive view of human connections and how individuals relate to one another. Counseling and psychology theories integrated with communication skills are combined to better understand oneself within relationships and how to create positive relationships. (F,S) (GR/P/NP)

PD 110 College Success Seminar 1 unit
Acceptable for credit: CSU
Designed specifically for first-time students to introduce them to the college and its resources. Develops critical awareness of the student’s role in the college culture, focusing on strategies for achieving academic success. Interactive learning and practical application in order to improve performance in other classes and the ability to deal effectively with the myriad of academic, personal, and professional choices are emphasized. (U,A) (P/NP)

PD 115 Career Planning 1 unit
Acceptable for credit: CSU
An Internet-based, career planning course designed to assist students in discovering their basic aptitudes, skills, interests and values. Uses standardized vocational preference inventories, self-directed search and career resource research to develop a career and educational plan. (F,S) (P/NP)

PD 120 Effective Tutoring 1 unit
Acceptable for credit: CSU
Explores the theory and practice of peer tutoring. Emphasizes development of communication techniques and tutoring strategies that address the needs of students with varying abilities, learning styles and cultural backgrounds. This course meets the curriculum requirements for tutor certification by the College Reading and Learning Association. (F,S) (P/NP)

PD 179, 379 Experimental Courses in Personal Development 0.5 to 10 units
179 - Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

PHILOSOPHY

PHIL 101 Survey of Philosophy 3 units
Acceptable for credit: CSU, UC
An overview of the central issues and movements in philosophy. Topics to be selected from such areas as ethics, political philosophy, metaphysics (the study of reality), epistemology (the study of knowledge), logic, aesthetics, phenomenology and existentialism. (F,S,U) (GR/P/NP)

PHIL 102 Existence & Reality 3 units
Acceptable for credit: CSU, UC
An introduction to the problems of metaphysics (the study of reality and existence) and epistemology (the study of knowledge). Possible topics include the existence of God, freedom versus determinism, the mind/body problem, problems of knowledge, appearance versus reality and existentialism. (S1) (GR/P/NP)

PHIL 105 Ethics 3 units
Acceptable for credit: CSU, UC
An introduction into the nature of ethics, examining ethical issues, traditional and nontraditional ethical systems and various contemporary ethical problems such as abortion and euthanasia. (S,U) (GR/P/NP)

PHIL 112 Logic 3 units
Acceptable for credit: CSU, UC
An introduction to the methods of principles of logic exploring inductive logic, deductive logic and critical thinking, including applications to philosophy, the exact sciences, the social sciences and to reasoning in everyday life. (F,S,U) (GR/P/NP)

PHIL 114 Critical Thinking 3 units
Acceptable for credit: CSU, UC
Prerequisite: ENGL 101
Introduction to critical thinking and critical writing. The student will learn techniques of practical reasoning and argumentation, with emphasis on application of these techniques in the writing of a sequence of argumentative essays. Topics include: critical reading, argument analysis, recognizing propaganda and stereotypes, clarifying ambiguity, meaning and definition, evaluation evidence, logical correctness versus factual correctness and common mistakes in reasoning (formal and informal fallacies). Critical writing strategies are emphasized. Sample arguments for analysis are drawn from readings in philosophy and from culturally diverse sources in other fields. This course has been designed to fulfill the IGETC Critical Thinking/English Composition requirement. (GR/P/NP)

PHIL 121 Religions of the Modern World 3 units
Acceptable for credit: CSU, UC
An introduction to the religious philosophy, beliefs and practices of six major world religions, including brief historical and cultural background on each. Hinduism, Buddhism, Taoism, Judaism, Islam and Christianity will be studied. (F,S) (GR/P/NP)

PHIL 122 Exploring Religious Issues 3 units
Acceptable for credit: CSU, UC
An introduction into the nature of ethics, examining ethical issues, traditional and nontraditional ethical systems and various contemporary ethical problems such as abortion and euthanasia. (S,U) (GR/P/NP)

PHIL 179, 379 Experimental Courses in Philosophy 0.5 to 10 units
179 - Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

PHIL 189 Independent Projects in Philosophy 1 to 3 units
Course may be repeated 3 times
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Acceptable for credit:</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHTO 110</td>
<td>Basic Photography</td>
<td>3</td>
<td>CSU, UC</td>
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<tr>
<td></td>
<td>Designed to introduce the student to the</td>
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<td></td>
<td>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)</td>
<td>(GR/P/NP)</td>
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<tr>
<td>PHTO 120</td>
<td>Materials &amp; Processes</td>
<td>2</td>
<td>CSU</td>
<td>PHTO 121</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: PHTO 110 Corequisite:</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)</td>
<td>(GR/P/NP)</td>
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</tr>
<tr>
<td>PHTO 121</td>
<td>Materials &amp; Processes Lab</td>
<td>1</td>
<td>CSU</td>
<td>PHTO 120</td>
</tr>
<tr>
<td></td>
<td>Course may be repeated 3 times</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PHTO 130</td>
<td>Advanced Black &amp; White</td>
<td>2</td>
<td>CSU</td>
<td>PHTO 131</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: PHTO 110 Corequisite:</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)</td>
<td>(GR/P/NP)</td>
<td></td>
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</tr>
<tr>
<td>PHTO 131</td>
<td>Adv Black &amp; White Photo Lab</td>
<td>1</td>
<td>CSU</td>
<td>PHTO 130</td>
</tr>
<tr>
<td></td>
<td>Course may be repeated 3 times</td>
<td></td>
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</tr>
<tr>
<td>PHTO 140</td>
<td>Intro to Color Photography</td>
<td>2</td>
<td>CSU; UC-DAT</td>
<td>PHTO 141</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: PHTO 110 Corequisite:</td>
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<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)</td>
<td>(GR/P/NP)</td>
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<tr>
<td>PHTO 141</td>
<td>Intro to Color Photography Lab</td>
<td>1</td>
<td>CSU; UC-DAT</td>
<td>PHTO 140</td>
</tr>
<tr>
<td></td>
<td>Course may be repeated 3 times</td>
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<tr>
<td>PHTO 150</td>
<td>Intro to Commercial Photograph</td>
<td>2</td>
<td>CSU</td>
<td>PHTO 110</td>
</tr>
<tr>
<td></td>
<td>Course may be repeated 1 time</td>
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</tr>
<tr>
<td>PHTO 170</td>
<td>Digital Photography</td>
<td>2</td>
<td>CSU</td>
<td>PHTO 171</td>
</tr>
<tr>
<td></td>
<td>Corequisite: PHTO 171 Advisory: PHTO 110</td>
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<td>An introduction to the tools of digital photography including the digital camera, flat bed scanner, slide scanner, digital transmission and methods of image presentation and display. Topics include image capturing, enhancement and presentation, including jet prints, film recorders, CD ROMs, modems and transmission. (A)</td>
<td>(GR/P/NP)</td>
<td></td>
<td></td>
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<tr>
<td>PHTO 171</td>
<td>Digital Photography Lab</td>
<td>1</td>
<td>CSU</td>
<td>PHTO 170</td>
</tr>
<tr>
<td></td>
<td>Course may be repeated 1 time</td>
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</tr>
<tr>
<td>PHOT 179, 379</td>
<td>Experimental Courses in Photography</td>
<td>5 to 10</td>
<td>CSU, UC-DAT</td>
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<tr>
<td></td>
<td>Course for description, see &quot;Experimental Courses.&quot;</td>
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<tr>
<td>PHTO 189</td>
<td>Independent Projects in Photography</td>
<td>1 to 3</td>
<td>CSU; UC-DAT</td>
<td></td>
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<tr>
<td></td>
<td>Course may be repeated 3 times</td>
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<tr>
<td>PHOT 199</td>
<td>Special Topics in Photography</td>
<td>0.5 to 3</td>
<td>CSU, UC-DAT</td>
<td></td>
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<tr>
<td></td>
<td>Course for description, see &quot;Special Topics.&quot;</td>
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<tr>
<td>PHTO 380</td>
<td>Black and White Photo Lab</td>
<td>0.5</td>
<td>CSU</td>
<td>PHTO 110, PHTO 12, PHTO 120, PHTO 121, PHTO 130, PHTO 131, PHTO 150, PHTO 160, PHTO 179, PHTO 189 or PHTO 199 (as related to black and white photo process only). 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. (F,S)</td>
</tr>
<tr>
<td>PHTO 381</td>
<td>Black and White Photo Lab</td>
<td>1</td>
<td>CSU</td>
<td>PHTO 110, PHTO 12, PHTO 120, PHTO 121, PHTO 130, PHTO 131, PHTO 150, PHTO 160, PHTO 179, PHTO 189 or PHTO 199 (as related to black and white photo process only).</td>
</tr>
</tbody>
</table>
PHOTOGRAPHY

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. (F,S) (P/NP)

PHTO 382 Color Photo Lab 1 0.5 unit
Course may be repeated 3 times
Corequisite: PHTO 140, PHTO 141, PHTO 179, PHTO 189 or PHTO 199 (as related to color photo process only).
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. (F,S) (P/NP)

PHTO 383 Color Photo Lab 2 1 unit
Course may be repeated 3 times
Corequisite: PHTO 140, PHTO 141, PHTO 179, PHTO 189 or PHTO 199 (as related to color photo process only).
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. (F,S) (P/NP)

PHTO 384 Digital Photo Lab 1 0.5 unit
Course may be repeated 3 times
Corequisite: PHTO 170, PHTO 171, PHTO 179, PHTO 189 or PHTO 199 (as related to digital photo process only).
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. (F,S) (P/NP)

PHTO 385 Digital Photo Lab 2 1 unit
Course may be repeated 3 times
Corequisite: PHTO 170, PHTO 171, PHTO 179, PHTO 189 or PHTO 199 (as related to digital photo process only).
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 concurrently enroll in PHTO 384 and PHTO 385. (F,S) (P/NP)

PHYSICAL EDUCATION

The study and application of the theories and techniques of teaching and coaching football. (S) (GR/P/NP)

PE 120 Swimming 1 unit
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL
An introduction to swimming, mastering the skills of the crawl stroke and elementary backstroke and learning personal safety skills such as floating, treading water and elementary forms of rescue. (F,S,U) (GR/P/NP)

PE 121 Swim Fitness Lab 1 unit
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL
Advisory: PE 120
Designed to permit students to develop skills and improve and maintain overall physical fitness and cardiovascular conditioning in a low impact aquatic environment with flexible scheduling. Students may enroll for any combination of PE 121 and 122 for a total of four semesters. Students may not be concurrently enrolled in PE 121. (F,S,U) (P/NP)

PE 122 Swim Fitness Lab 0.5 unit
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL
Advisory: PE 120
Designed to permit students to develop skills and improve and maintain overall physical fitness and cardiovascular conditioning in a low impact aquatic environment with flexible scheduling. Students may enroll for any combination of PE 121 and 122 for a total of four semesters. Students may not be concurrently enrolled in PE 121. (F,S,U) (P/NP)

PE 123 Aerobic Swimming 1 unit
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL
Advisory: PE 120
Designed to permit students to become familiar with the concepts of swimming as an alternative aerobic conditioning program. (F,S,U) (GR/P/NP)

PE 130 Self Defense 1 unit
Course may be repeated 1 time
Acceptable for credit: CSU, UC–CL
Affords all students the opportunity to become proficient in basic self-defense skills. Particularly suited for women and does not require any prior martial arts training. (F,S,U) (GR/P/NP)

PE 131 Tai Chi for Health 1 unit
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL
Affords all students the opportunity to become proficient in basic self-defense skills. Particularly suited for women and does not require any prior martial arts training. (F,S,U) (GR/P/NP)

PE 132 Cardio Kickboxing 1 unit
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL
Designed to teach a variety of kickboxing movements while developing aerobic and strength conditioning. (F,S,U) (GR/P/NP)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Description</th>
<th>Acceptable for credit:</th>
<th>Repeatable</th>
<th>Acceptable for credit:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 133</td>
<td>Yoga Fitness</td>
<td>1</td>
<td>Designed to teach students the fundamentals of weight lifting, including proper lifting techniques and safety in the weight room. (F,S,U) (GR/P/NP)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 134</td>
<td>Martial Arts Techniques</td>
<td>1</td>
<td>Introduction to basic techniques from more than 10 different martial arts systems. (F,S,U) (GR/P/NP)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 140</td>
<td>Physical Fitness Lab</td>
<td>1</td>
<td>Designed to permit students to build muscle mass and strength, as well as develop overall physical fitness and cardiovascular conditioning. Provides students with the opportunity to utilize sophisticated conditioning equipment to accomplish their individual conditioning goals. Three hours per week with flexible scheduling. Students may enroll for any combination of PE 140 and PE 141 for a total of four semesters. Students may not be concurrently enrolled in PE 141 or PE 145. (F,S,U) (P/NP)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 141</td>
<td>Physical Fitness Lab</td>
<td>0.5</td>
<td>Designed to permit students to build muscle mass and strength, as well as develop overall physical fitness and cardiovascular conditioning. Provides students with the opportunity to utilize sophisticated conditioning equipment to accomplish their individual conditioning goals. Two hours per week with flexible scheduling. Students may enroll for any combination of PE 140 and PE 141 for a total of four semesters. Students may not be concurrently enrolled in PE 140 or PE 145. (F,S,U) (P/NP)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 142</td>
<td>Low Impact Conditioning Exercise</td>
<td>1</td>
<td>Provides ways for students to improve fitness level by using principles of cardiovascular conditioning, flexibility, strength, coordination and endurance training. Special attention is given to proper motion, but not required for participation. (F,S,U) (GR/P/NP)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 143</td>
<td>Step Aerobics</td>
<td>1</td>
<td>An aerobic exercise program that utilizes a platform for stepping up and down. This high intensity, low impact activity accommodates students at all fitness levels. (F,S,U) (GR/P/NP)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 144</td>
<td>Weight Training</td>
<td>1</td>
<td>Designed to teach students the fundamentals of weight lifting, including proper lifting techniques and safety in the weight room. (F,S,U) (GR/P/NP)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 145</td>
<td>Varsity Conditioning</td>
<td>2</td>
<td>Designed to permit students to utilize an individualized strength and body building program using a combination of exercise machines and free weights in preparation for participation in varsity competition. Students may not be concurrently enrolled in PE 140 or PE 141. (F,S) (GR/P/NP)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 146</td>
<td>Strength &amp; Flexibility</td>
<td>1</td>
<td>Designed to stretch, strengthen, tone muscles and improve body alignment using specific flexibility exercises and free weights. (F,S,U) (GR/P/NP)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 149</td>
<td>Cooperative Work Experience: Occupational</td>
<td>1 to 8</td>
<td>Course may be repeated 3 times. For course description, see “Cooperative Work Experience: Occupational.”</td>
<td>CSU, UC–CL; UC–DAT</td>
<td>3</td>
<td>CSU, UC–DAT</td>
</tr>
<tr>
<td>PE 150</td>
<td>Jogging/Walking</td>
<td>1</td>
<td>Students improve cardiovascular and muscular physical fitness levels and flexibility. (F,S,U) (GR/P/NP)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 151</td>
<td>Golf</td>
<td>1</td>
<td>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)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 152</td>
<td>The Short Game</td>
<td>1</td>
<td>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)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 153</td>
<td>Tennis</td>
<td>1</td>
<td>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)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
<tr>
<td>PE 154</td>
<td>Body-Ball Workout</td>
<td>1</td>
<td>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)</td>
<td>CSU, UC–CL</td>
<td>3</td>
<td>CSU, UC–CL</td>
</tr>
</tbody>
</table>
PE 164 Soccer  1 unit
Course may be repeated 3 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 Baseball  1 unit
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL
Designed to accommodate large number of students interested in building proficiency in baseball knowledge and skills. Fundamentals of individual and team play are stressed. (F,S) (GR/P/NP)

PE 167 Basketball  1 unit
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL
This course stressed the development of the 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 3 times
Acceptable for credit: CSU, UC–CL
Instruction in and development of fundamental skills and team play. (S) (GR/P/NP)

PE 170 Softball  1 unit
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL (GR/P/NP)

PE 172 Volleyball  1 unit
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL
Designed to give instruction and practice in the fundamental skills basic to successful performance in volleyball. Rules and offensive and defensive formation will be included. (F,S,U) (GR/P/NP)

PE 179, 379 Experimental Courses in Physical Education  5 to 10 units
179 - Acceptable for credit: CSU, UC-DAT
For course description, see "Experimental Courses."

PE 189 Independent Projects in Physical Education  1 to 3 units
Course may be repeated 3 times
Acceptable for credit: CSU, UC–CL
For course description, see "Independent Projects."

PE 199 Special Topics in Physical Education  0.5 to 3 units
Acceptable for credit: CSU, UC–DAT
For course description, see "Special Topics."
PEIA 150 Intercollegiate Track, Men 3 units  
Course may be repeated 1 time  
Acceptable for credit: CSU, UC  
Limitation on enrollment: Athletic eligibility  
(GR/P/NP)  

PEIA 155 Intercollegiate Track, Women 3 units  
Course may be repeated 1 time  
Acceptable for credit: CSU, UC  
Limitation on enrollment: Athletic eligibility  
(GR/P/NP)  

PEIA 160 Intercollegiate Tennis, Men 3 units  
Course may be repeated 1 time  
Acceptable for credit: CSU, UC  
Limitation on enrollment: Athletic eligibility  
(GR/P/NP)  

PEIA 165 Intercollegiate Tennis, Women 3 units  
Course may be repeated 1 time  
Acceptable for credit: CSU, UC  
Limitation on enrollment: Athletic eligibility  
(GR/P/NP)  

PEIA 170 Intercollegiate Golf, Men 3 units  
Course may be repeated 1 time  
Acceptable for credit: CSU, UC  
Limitation on enrollment: Athletic eligibility  
(GR/P/NP)  

PEIA 175 Intercollegiate Golf, Women 3 units  
Course may be repeated 1 time  
Acceptable for credit: CSU, UC  
Limitation on enrollment: Athletic eligibility  
(GR/P/NP)  

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 3 times.  
Acceptable for credit: CSU, UC-DAT  

PHSC 179 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 Science 0.5 to 3 units  
Acceptable for credit: CSU, UC-DAT  
For course description, see "Special Topics."  

PHYS 100 Concepts in Physics 3 units  
Acceptable for credit: CSU, UC  
Advisory: MATH 311. Eligibility for ENGL 101 or ENGL 301  
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, MATH 141, MATH 181, MATH 182, 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  
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, which 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. (S) (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. (F) (GR/P/NP)

PHYS 189 Independent Projects in Physics 1 to 3 units
Acceptable for credit: CSU, UC-DAT
Course may be repeated 3 times
Acceptable for credit: CSU, UC-DAT
For course description, see "Independent Projects."

PHYS 190 Mechanical Universe 3 units
Acceptable for credit: CSU (GR/P/NP)

PHYS 191 Beyond Mechanical Universe 3 units
Acceptable for credit: CSU (GR/P/NP)

PSYCHOLOGY

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/N)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 115</td>
<td>Behavior Modification</td>
<td>3</td>
</tr>
<tr>
<td>Acceptable for credit: CSU</td>
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<tr>
<td>Advisory: PSY 101 is recommended</td>
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<tr>
<td>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)</td>
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<tr>
<td>PSY 116</td>
<td>Death &amp; Dying</td>
<td>3</td>
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<tr>
<td>Acceptable for credit: CSU, UC</td>
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<tr>
<td>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)</td>
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<tr>
<td>PSY 117</td>
<td>Child Psychology</td>
<td>3</td>
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<tr>
<td>Acceptable for credit: CSU, UC</td>
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<tr>
<td>Prerequisite: PSY 101</td>
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<tr>
<td>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)</td>
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<tr>
<td>PSY 118</td>
<td>Human Development-Lifespan</td>
<td>3</td>
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<tr>
<td>Acceptable for credit: CSU, UC</td>
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<tr>
<td>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)</td>
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<tr>
<td>PSY 119</td>
<td>Abnormal Psychology</td>
<td>3</td>
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<td>Acceptable for credit: CSU, UC</td>
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<tr>
<td>Advisory: PSY 101</td>
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<tr>
<td>A survey of abnormal psychology reviewing patterns, causes and theories of maladaptive behavior, clinical assessment, therapies and prevention of psychological disorders. (S) (GR)</td>
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<tr>
<td>PSY 120</td>
<td>Cultural Psychology</td>
<td>3</td>
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<td>Acceptable for credit: CSU, UC</td>
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<td></td>
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<tr>
<td>Prerequisite: PSY 101</td>
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<tr>
<td>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)</td>
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<tr>
<td>PSY 121</td>
<td>Social Psychology</td>
<td>3</td>
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<tr>
<td>Acceptable for credit: CSU</td>
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<tr>
<td>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)</td>
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</tr>
<tr>
<td>PSY 122</td>
<td>States of Consciousness</td>
<td>3</td>
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<tr>
<td>Acceptable for credit: CSU</td>
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<tr>
<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 HUSV 122 or ANTH 122. (F,S) (GR)</td>
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<tr>
<td>PSY 127</td>
<td>Emotional Intelligence</td>
<td>3</td>
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<tr>
<td>Acceptable for credit: CSU</td>
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<tr>
<td>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)</td>
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<tr>
<td>PSY 128</td>
<td>Positive Psychology</td>
<td>3</td>
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<td>Acceptable for credit: CSU</td>
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<tr>
<td>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 HUSV128. (F,S) (GR/P/NP)</td>
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<tr>
<td>PSY 132</td>
<td>Drugs, the Brain &amp; the Body</td>
<td>3</td>
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<tr>
<td>Acceptable for credit: CSU, UC</td>
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<tr>
<td>Advisory: HUSV 110, SOC 106 or PSY 106 is strongly recommended.</td>
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<tr>
<td>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)</td>
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<tr>
<td>PSY 142</td>
<td>Co-occurring Disorders: Assess</td>
<td>3</td>
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<td>Acceptable for credit: CSU</td>
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<tr>
<td>Concepts, definitions and features of dual diagnosis/co-occurring disorders; human services and treatment needs of persons with both a psychiatric disorder and an alcohol or other drug use disorder and identification and assessment of these individuals. This course is not open to students who are enrolled in or have received credit for HUSV 142. (F,S) (GR/P/NP)</td>
<td></td>
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</tr>
</tbody>
</table>
PSY 143 Co-occurring Disorders: Treatment 3 units
Acceptable for credit: CSU
Prerequisite: HUSV 142
A study of the management and treatment of persons with 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 Human Services 143. (F,S) (GR/P/NP)

PSY 189 Independent Projects in Psychology 1 to 3 units
Course may be repeated 3 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."

READING

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 3 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)

REAL ESTATE

RE 100 Real Estate Principles 3 units
Acceptable for credit: CSU
Basic laws and principles of California real estate and providing the background and terminology necessary for advanced study in specialized courses. Recommended for those preparing for the real estate salesperson license examination. (A) (GR)

RE 300 Real Estate Exam Prep 3 units
Prerequisite: Completion of or concurrent enrollment in RE 100
A review of the basic laws and principles of California real estate. Recommended for those preparing for the real estate salesperson license examination. (A) (P/NP)

RE 302 Legal Aspects of Real Estate 3 units
Prerequisite: RE 100
California real estate law affecting property ownership and management; contracts, transfers, probate, trust deeds and foreclosures. Includes review of recent legislation governing transactions. (A) (GR/P/NP)

RE 303 Real Estate Practices 3 units
Prerequisite: RE 100
A study of day-to-day operations in real estate sales and brokerage, including listing, prospecting, advertising, financing, sales techniques, escrow and ethics. Applies towards California educational requirements for the broker’s examination. (F,S) (GR/P/NP)

RE 305 Real Estate Appraisal 3 units
Prerequisite: RE 100
An introduction to the appraisal process and the different approaches, methods and techniques used to determine the value of various types of property. Emphasis is on residential and single-unit properties. (F,S) (GR/P/NP)

RE 306 Property Management 3 units
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)

REC 101 Introduction to Rec Management 3 units
Acceptable for credit: CSU
An introduction to the principles of program management in recreation services in the areas of public and private domains, park, military and institutional settings as well as services to special populations. (F,S) (GR/P/NP)

REC 103 Leadership in Rec Services 3 units
Acceptable for credit: CSU
An examination 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) (GR/P/NP)

REC 105 Program Planning for Recreation 3 units
Acceptable for credit: CSU
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) (GR/P/NP)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 107</td>
<td>Rec Sports Programming</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 102</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOC 104</td>
<td>Social Science Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOC 106</td>
<td>Alcohol, Drugs, &amp; Addiction</td>
<td>3</td>
</tr>
<tr>
<td>SOC 110</td>
<td>Personal &amp; Family Relationships in the 21st Century</td>
<td>3</td>
</tr>
<tr>
<td>SOC 120</td>
<td>Race &amp; Ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOC 121</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 122</td>
<td>Soc of the Hispanic Culture</td>
<td>3</td>
</tr>
<tr>
<td>SOC 155</td>
<td>Media &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC 179, 379</td>
<td>Experimental Courses in Sociology</td>
<td>0.5 to 10</td>
</tr>
<tr>
<td>128</td>
<td>Materials &amp; Processing</td>
<td>3</td>
</tr>
</tbody>
</table>

A survey and analysis of ethnic Groups and their relations in the United States including the stratification systems, prejudice and discrimination. (GR/P/NP)

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 PSY 121. (F,S) (GR)

A sociological exploration of the culture of Mexican Americans, Puerto Rican Americans and Cuban Americans. Topics include educational, political and economic status. Emphasis will be on immigration patterns, cultural values, social images, assimilation patterns and pluralism. (F,S) (GR/P/NP)

An exploration of the complex interaction between the mass media and individuals, culture and other social institutions. While focused on the United States, the issue of an increasingly globalized mass media and the emergence of global culture is also addressed. Topics include the effects of mass media on public opinion and popular culture; the various racial, ethnic and gender stereotypes in the mass media; the ways in which politics affects and is affected by mass communication; the consequences of privately owned media; the major changes in technologies; and the emergence and growth of a ‘global culture’ based on media technology and organizations. (F,S) (GR/P/NP)

For course description, see “Experimental Courses.”

An introduction to the multidisciplinary field of urban studies, which explores topics such as the origin of cities; the physical, social and cultural characteristics of urban areas; urban social problems; and the various approaches used to solve such problems. Special attention is given to the United States and to issues of class, race and gender. (F,S,U) (GR/P/NP)

Introduces students to the physical properties and characteristics of common materials and commodities used in the aerospace industry. Topics include compatibility of materials, basic metallurgy and processes. (S) (GR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Acceptable for credit:</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 101</td>
<td>Elementary Spanish</td>
<td>5 units</td>
<td>CSU, UC</td>
<td></td>
<td>An introduction to current Spanish, stressing pronunciation, understanding, speaking, writing and reading the language. A question and answer format; students receive oral and written practice in sentence structure, vocabulary and idiomatic Spanish. Includes an introduction to some cultural aspects of the Spanish-speaking world. This course is not open to students who are enrolled in or have received credit for SPAN 121. (F,S,U) (GR/P/NP)</td>
</tr>
<tr>
<td>SPAN 102</td>
<td>Elementary Spanish</td>
<td>5 units</td>
<td>CSU, UC</td>
<td>SPAN 101 or SPAN 121</td>
<td>A continuation of SPAN 101, emphasizing oral and written participation and continuing the cultural introduction to some aspects of Hispanic history, art, music, customs and folklore. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>SPAN 103</td>
<td>Intermediate Spanish</td>
<td>5 units</td>
<td>CSU, UC</td>
<td>SPAN 102</td>
<td>A review of Spanish Grammar, with practice in reading, writing and conversation. Includes some cultural and historical study of the Spanish-speaking world. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>SPAN 104</td>
<td>Intermediate Spanish</td>
<td>5 units</td>
<td>CSU, UC</td>
<td>SPAN 103</td>
<td>A review of advanced Grammar, with increased practice in reading, writing and speaking in Spanish. Continues the study of Hispanic culture and history begun in SPAN 103 and introduces the students to contemporary Hispanic literature. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>SPAN 105</td>
<td>Adv Composition &amp; Grammar</td>
<td>5 units</td>
<td>CSU, UC</td>
<td>SPAN 104</td>
<td>A review of Grammar with increased practice in reading, writing and speaking in Spanish at the advanced level. Essay writing, writing as a communicative and solitary process and the skills necessary to manage the writing interaction will be emphasized. Use of authentic Spanish-language literary works provides the medium for essay production and class discussions. (A) (GR/P/NP)</td>
</tr>
<tr>
<td>SPAN 110</td>
<td>Intro to Conversation in Spanish</td>
<td>2 units</td>
<td>CSU</td>
<td>SPAN 101 or SPAN 121</td>
<td>Designed to help students sharpen their conversational skills in Spanish by increasing their vocabularies and perfecting Grammatical structures learned in SPAN 101. Emphasis is on improving aural-oral skills. (U) (GR/P/NP)</td>
</tr>
<tr>
<td>SPAN 111</td>
<td>Intermediate Spanish Conversation</td>
<td>2 units</td>
<td>CSU, UC</td>
<td>SPAN 102</td>
<td>Designed for students who have completed one year of college Spanish (Spanish 101 and 102), emphasizing oral practice of the basic structures learned in SPAN 101 and the expansion of the students' vocabularies. (F,S) (GR/P/NP)</td>
</tr>
<tr>
<td>SPAN 112</td>
<td>Advanced Spanish</td>
<td>3 units</td>
<td>CSU, UC-CL</td>
<td>SPAN 104</td>
<td>Designed for students who have completed one year of intermediate Spanish. Oral communication at the advanced level is emphasized. Spanish-language films will be used as springboards for conversation of various themes, topics and cultural experiences. (A) (GR/P/NP)</td>
</tr>
<tr>
<td>SPAN 120</td>
<td>Fundamentals of Spanish</td>
<td>3 units</td>
<td>CSU, UC-CL</td>
<td>SPAN 102</td>
<td>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)</td>
</tr>
<tr>
<td>SPAN 121</td>
<td>Fundamentals of Spanish</td>
<td>3 units</td>
<td>CSU, UC-CL</td>
<td>SPAN 120</td>
<td>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)</td>
</tr>
<tr>
<td>SPAN 148</td>
<td>Hispanic Literature in Translation</td>
<td>3 units</td>
<td>CSU</td>
<td>ENGL 101</td>
<td>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. (GR)</td>
</tr>
<tr>
<td>SOC 179, 379</td>
<td>Experimental Courses in Sociology</td>
<td>0.5 to 10 units</td>
<td>CSU, UC-DAT</td>
<td></td>
<td>179 - Acceptable for credit: CSU, UC-DAT For course description, see &quot;Experimental Courses.&quot;</td>
</tr>
<tr>
<td>SPAN 189</td>
<td>Independent Projects in Spanish</td>
<td>1 to 3 units</td>
<td>CSU, UC</td>
<td></td>
<td>Course may be repeated 3 times</td>
</tr>
<tr>
<td>SPAN 306</td>
<td>Spanish Language Lab</td>
<td>0.5 unit</td>
<td>CSU, UC</td>
<td></td>
<td>Course may be repeated 3 times</td>
</tr>
</tbody>
</table>

For SOC 179, 379 Experimental Courses in Sociology, please see "Experimental Courses."
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 and/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) (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)

WELDING TECHNOLOGY

SPCH 110 Intercultural Communication 3 units
Acceptable for credit: CSU, UC
Advisory: ENGL 301
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 1 to 8 units
Course may be repeated 3 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 3 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 2 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 metal 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 1 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 3 times
An opportunity to use blacksmithing in the fabrication of projects developed and assigned by the instructor. (F) (GR)

WLDT 320 Blacksmithing Projects 0.5 unit
An opportunity to use blacksmithing in the fabrication of small projects. (A) (GR/P/NP)

WLDT 321 Adv Welding Certification Lab 2 units
Course may be repeated 2 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 330 Welding Certification 3 units
Prerequisite: WLDT 107, 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 2 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 332 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 333 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 334 Welding Certification-TIG 0.5 unit
This course is to encourage individuals who are near or at completion of preparation for taking their TIG 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, AT 381, ET 381 or MT 381. (A) (GR)

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)
### WILDLAND FIRE TECHNOLOGY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFT 102</td>
<td>Wildfire Safety &amp; Survival</td>
<td>3</td>
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<tr>
<td></td>
<td><em>Acceptable for credit: CSU</em></td>
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<td></td>
<td>Prerequisite: WFT 302</td>
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<tr>
<td></td>
<td>An exploration of the situations and conditions that result in fire shelter deployments, serious injuries and fatalities for wildland firefighters. (F) (GR)</td>
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<tr>
<td>WFT 103</td>
<td>Wildland Fire Operations</td>
<td>3</td>
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<tr>
<td></td>
<td><em>Acceptable for credit: CSU</em></td>
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<tr>
<td></td>
<td>Prerequisite: WFT 302</td>
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<tr>
<td></td>
<td>An exploration of the command structure and operational processes for Ground and air operations in the control of wildland fires. (S) (GR)</td>
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<tr>
<td>WFT 104</td>
<td>Wild PIO, Prevention &amp; Investigation</td>
<td>3</td>
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<tr>
<td></td>
<td><em>Acceptable for credit: CSU</em></td>
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<td></td>
<td>Prerequisite: WFT 302</td>
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<td></td>
<td>Presents the roles and functions of the information officer, emphasizing fire prevention and investigation communications. (F) (GR)</td>
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<tr>
<td>WFT 105</td>
<td>Planning, Logistics &amp; Finance</td>
<td>3</td>
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<td><em>Acceptable for credit: CSU</em></td>
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<tr>
<td></td>
<td>Prerequisite: WFT 302</td>
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<tr>
<td></td>
<td>Explores the functions of planning, logistics and finance as related to the control of wildland fires. (S) (GR)</td>
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<tr>
<td>WFT 149</td>
<td>Cooperative Work Experience: Occupational</td>
<td>1</td>
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<tr>
<td></td>
<td>Course may be repeated 3 times.</td>
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<td><em>Acceptable for credit: CSU, UC-DAT</em></td>
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<tr>
<td></td>
<td>For course description, see “Cooperative Work Experience: Occupational.”</td>
<td></td>
</tr>
<tr>
<td>WFT 301</td>
<td>Introduction to ICS (I-100)</td>
<td>0.5</td>
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<tr>
<td></td>
<td>An introductory course designed to acquaint the student with the principles of the Incident Command System, its structure and terminology. (A) (GR/P/NP)</td>
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<tr>
<td>WFT 302</td>
<td>Basic ICS (I-200)</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>A continuation of Wildland Fire Technology 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)</td>
<td></td>
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<tr>
<td>WFT 303</td>
<td>Intermediate ICS (I-300)</td>
<td>1.5</td>
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<td>Prerequisite: WFT 302</td>
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<tr>
<td></td>
<td>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)</td>
<td></td>
</tr>
<tr>
<td>WFT 304</td>
<td>Advanced ICS (I-400)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: WFT 303</td>
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</tr>
<tr>
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<td>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)</td>
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### WILDLAND FIRE LOGISTICS

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<td>WFT 305</td>
<td>Multi-Agency Coordination (I-401)</td>
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<td>Prerequisite: WFT 304</td>
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<td>Course describing the major elements associated with developing and implementing an effective multi-agency coordination system. (A) (GR/P/NP)</td>
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<td>WFT 306</td>
<td>Incident Command System for Executives (I-402)</td>
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<td>Prerequisite: WFT 305</td>
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<td>Course covers the duties of command staff members, agency representatives and activation of the command and general staff positions. (A) (GR/P/NP)</td>
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<td>WFTL 314</td>
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<td>WFTL 317</td>
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<td>WFTL 320</td>
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<td>WFTL 324 Compensation Injury Manager J-264</td>
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<td>WFTL 330 Facilities Unit Leader J-354</td>
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<td>WFTL 331 Ground Support Unit Leader J-355</td>
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<td>WFTL 332 Supply Unit Leader J-356</td>
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<td>WFTL 333 Food Unit Leader J-357</td>
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<td>WFTL 334 Communications Unit Leader J-358</td>
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<td>WFTL 335 Medical Unit Leader J-359</td>
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<td>WFTL 336 Cost Unit Leader I-362</td>
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<td>WFTL 337 Compensation/Claims Unit Leader I-363</td>
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<td>WFTL 338 Time Unit Leader I-365</td>
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<td>WFTL 340 Planning Section Chief J-440</td>
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<td>WFTL 341 Logistics Section Chief J-450</td>
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<td>WFTL 342 Finance Section Chief I-460</td>
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<td>WFTL 359 Weather Information Management System</td>
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**Wildland Fire Technology Operations**

<p>| WFTO 310 Basic Fire Suppression Orientation S-110 | 0.5 unit | (GR/P/NP) |
| WFTO 311 Firefighter Training S-130 | 2 units | (GR/P/NP) |
| WFTO 312 Adv Firefighter Training S-131 | 0.5 unit | (GR/P/NP) |
| WFTO 313 Intro to Wildland Fire Behavior S-190 | 0.5 unit | (GR/P/NP) |
| WFTO 314 Initial Attack Incident Commander S-200 | 1 unit | (GR/P/NP) |
| WFTO 315 Supervisory Concepts &amp; Techniques S-201 | 1 unit | (GR/P/NP) |
| WFTO 316 Fire Operations in the Urban Interface S-205 | 2 units | (GR/P/NP) |
| WFTO 317 Portable Pumps &amp; Water Use S-211 | 0.5 unit | (GR/P/NP) |
| WFTO 318 Wildfire Powersaws S-212 | 1.5 units | (GR/P/NP) |
| WFTO 319 Driving for the Fire Service S-216 | 2 units | (GR/P/NP) |
| WFTO 320 Helicopter Training Guide S-217 | 2 units | (GR/P/NP) |
| WFTO 321 Crew Boss S-230 | 1.5 units | (GR/P/NP) |
| WFTO 322 Engine Boss S-231 | 0.5 unit | (GR/P/NP) |
| WFTO 323 Dozer Boss S-232 | 1 unit | (GR/P/NP) |
| WFTO 324 Tractor Plow Boss S-233 | 0.5 unit | (GR/P/NP) |
| WFTO 325 Ignition Operations S-234 | 2 units | (GR/P/NP) |
| WFTO 326 Felling Boss S-235 | 1.5 units | (GR/P/NP) |
| WFTO 327 Staging Area Manager J-236 | 0.5 unit | (GR/P/NP) |
| WFTO 328 Field Observer S-244 | 2 units | (GR/P/NP) |</p>
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<td>Fire Suppression Tactics S-336</td>
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<td>Introduction to Wildland Fire Behavior Calculations S-390</td>
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### Wildland Fire Technology Prevention

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0.5 unit  
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WFTP 313 California Basic Fire Prevention P-140  
2 units  
(GR/P/NP)

WFTP 314 Wildfire Origin & Cause Determination  
P-151  
2 units  
(GR/P/NP)

WFTP 315 Introduction To Public Information  
Officer S-203  
2 units  
(GR/P/NP)

WFTP 317 Inter Fire Prevention P-240  
2 units  
(GR/P/NP)

WFTP 320 Wildfire Prevention Analysis & Planning P-301  
2 units  
(GR/P/NP)

WFTP 321 Wildfire Prevention Marketing P-303  
2 units  
(GR/P/NP)

WFTP 322 Adv Fire Prevention P-340  
2 units  
(GR/P/NP)

WFTP 323 Intro to Fire Effects RX-340  
2 units  
(GR/P/NP)

WFTP 324 Information Officer S-403  
2 units  
(GR/P/NP)

WFTP 326 Smoke Management Techniques  
RX-450  
2 units  
(GR/P/NP)
I appreciate that Ms. Tait and teachers like her go the extra mile to make sure that I thoroughly understand important concepts.

Caitlyn Grasso
Major: Photography
Kathryn T. Adams, Assistant Professor, English
B.A., M.A., San Jose State University; Ph.D., University of Texas, Austin

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M.A., Chapman University

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M.F.A., University of California, Irvine

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Deborah Amnibali, Law Enforcement Academy
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, Administration of Justice
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

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
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Sandra Bierdzinski, Librarian
B.S., Bradley University; M.L.I.S., University of Wisconsin, Milwaukee

Donna Bishop, Coordinator, Tutorial Center
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Tammy Brannon, Biology
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William Bruce, Director, Extended Opportunity Programs
& Services/Special Outreach
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Robert Bryant, Business
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Angela Caballerode Cordero, Assoc. Professor, Counseling
A.S., Imperial Valley College; B.S., California Polytechnic University;
M.S.W., California State University, Fresno; Ph.D., University of California, Santa Barbara

Alice Caddell, Early Childhood Studies
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Rinaldo Caminada, Physical Education
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M.B.A., University of Phoenix

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B.S., Massachusetts Institute of Technology; M.S., University of Southern California, Los Angeles; M.A., University of California, San Diego

Noé Chavez-Magana, Spanish
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Eui Chung, Mathematics
B.A., M.A., California State University, Fullerton

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
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Judith DalPorto, Early Childhood Studies
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, ECS Preschool
A.S., Santa Barbara City College; B.S., University of La Verne

Michael Dempsey, Conservatory Director, PCPA
A.A., B.A., University of Wisconsin; M.F.A., University of Connecticut

Andrew Densmore, Coordinator/Instructor, Fire Academy
B.S., Allan Hancock College

Jody Derry, Assistant Professor, Business
B.A., California State University, Fresno; M.B.A., California Polytechnic State University, Pomona

Cynthia Diaz, Counseling
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<thead>
<tr>
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<th>Position</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
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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.
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2010-2011 Academic Calendar

Summer 2010

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<td>Ongoing</td>
<td>Apply for admission, 2010-11 academic year</td>
</tr>
<tr>
<td>M-F Apr 26-30</td>
<td>Priority Online Registration</td>
</tr>
<tr>
<td>S-M May 1-Jun 13</td>
<td>Open Online Registration</td>
</tr>
<tr>
<td>Su-M May 30-Jun 13</td>
<td>College Now! Online Registration</td>
</tr>
<tr>
<td>M Jun 14</td>
<td>6-week &amp; 8-week summer classes begin</td>
</tr>
<tr>
<td>M Jun 14</td>
<td>Community Education Spectrum classes begin</td>
</tr>
<tr>
<td>M-F Jun 14-17</td>
<td>Late registration – summer credit classes</td>
</tr>
<tr>
<td>F Jun 17</td>
<td>Last day to add 6- &amp; 8-week classes</td>
</tr>
<tr>
<td>W Jun 23</td>
<td>Last day to drop without W, 6-week classes</td>
</tr>
<tr>
<td>W Jun 23</td>
<td>Last day to select PASS/NO PASS option, 6-week classes</td>
</tr>
<tr>
<td>M Jun 28</td>
<td>Last day to drop without W, 8-week classes</td>
</tr>
<tr>
<td>M Jun 28</td>
<td>Last day to select PASS/NO PASS option, 8-week classes</td>
</tr>
<tr>
<td>M Jul 5</td>
<td>Independence Day – college closed</td>
</tr>
<tr>
<td>T Jul 13</td>
<td>Last day to drop 6-week classes</td>
</tr>
<tr>
<td>Th Jul 15</td>
<td>Last day to file petition for summer diploma or certificate</td>
</tr>
<tr>
<td>W Jul 21</td>
<td>Classes end – 6-week</td>
</tr>
<tr>
<td>Th Jul 22</td>
<td>Last day to drop 8-week classes</td>
</tr>
<tr>
<td>Th Jul 22</td>
<td>Final Exams – 6-week classes</td>
</tr>
<tr>
<td>W Aug 4</td>
<td>Classes end – 8-week</td>
</tr>
<tr>
<td>Th Aug 5</td>
<td>Final Exams – 8-week classes</td>
</tr>
<tr>
<td>S Aug 7</td>
<td>Community Education Spectrum classes end</td>
</tr>
<tr>
<td>Th Aug 12</td>
<td>Summer grades due in Admissions &amp; Records by noon</td>
</tr>
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Fall 2010

<table>
<thead>
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<th>Date</th>
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<tbody>
<tr>
<td>Ongoing</td>
<td>Apply for admission, 2010-11 academic year</td>
</tr>
<tr>
<td>M-F Jun 28-Jul 2</td>
<td>Priority Online Registration</td>
</tr>
<tr>
<td>S-S Jul 3-Aug 28</td>
<td>College Now! Online Registration</td>
</tr>
<tr>
<td>Su-S Aug 9-28</td>
<td>College Now! Online Registration</td>
</tr>
<tr>
<td>Th Aug 19</td>
<td>Staff Development Day</td>
</tr>
<tr>
<td>F Aug 20</td>
<td>All Staff Day</td>
</tr>
<tr>
<td>M Aug 23</td>
<td>Semester-length &amp; 8-week Term 1 credit classes begin</td>
</tr>
<tr>
<td>M Aug 23</td>
<td>Community Education Spectrum classes begin</td>
</tr>
<tr>
<td>S Aug 28</td>
<td>Last day to add semester-length and Term 1 classes</td>
</tr>
<tr>
<td>M Sep 6</td>
<td>Labor Day – college closed</td>
</tr>
<tr>
<td>T Sep 7</td>
<td>Last day to drop without W, Term 1 classes</td>
</tr>
<tr>
<td>T Sep 7</td>
<td>Last day to select PASS/NO PASS option, Term 1 classes</td>
</tr>
<tr>
<td>W Sep 2</td>
<td>Last day to drop without W, semester-length classes</td>
</tr>
<tr>
<td>W Sep 2</td>
<td>Last day to select PASS/NO PASS option, semester-length classes</td>
</tr>
<tr>
<td>TH Sep 3</td>
<td>Last day to drop Term 1 classes</td>
</tr>
<tr>
<td>W Oct 1</td>
<td>Term 1 classes end</td>
</tr>
<tr>
<td>Th-F Oct 14-15</td>
<td>Final Exams – Term 1 classes</td>
</tr>
<tr>
<td>M Oct 18</td>
<td>Term 2 8-week classes begin</td>
</tr>
<tr>
<td>F Oct 22</td>
<td>Last day to register in or add Term 2 classes</td>
</tr>
<tr>
<td>M Nov 1</td>
<td>Last day to drop without W, Term 2 classes</td>
</tr>
<tr>
<td>M Nov 1</td>
<td>Last day to select PASS/NO PASS option, Term 2 classes</td>
</tr>
<tr>
<td>F Nov 5</td>
<td>Last day to file petition for full diploma or certificate</td>
</tr>
<tr>
<td>M Nov 8</td>
<td>Last day to drop semester-length classes</td>
</tr>
<tr>
<td>F Nov 12</td>
<td>Veterans Day – college closed</td>
</tr>
<tr>
<td>T Nov 23</td>
<td>Last day to drop Term 2 classes</td>
</tr>
<tr>
<td>Th-S Nov 25-27</td>
<td>Thanksgiving Recess – college closed</td>
</tr>
<tr>
<td>W Dec 1-6</td>
<td>Priority Online Registration for spring 2011</td>
</tr>
<tr>
<td>W Dec 8</td>
<td>Last day of instruction – semester-length &amp; Term 2 classes</td>
</tr>
<tr>
<td>S Dec 11</td>
<td>Community Education Spectrum classes end</td>
</tr>
<tr>
<td>Th-W Dec 9-15</td>
<td>Final Exams (5 final Dec 11)</td>
</tr>
<tr>
<td>T-W Dec 14-15</td>
<td>Final Exams – Term 2</td>
</tr>
<tr>
<td>Th Dec 22</td>
<td>Fall grades due in Admissions &amp; Records by noon</td>
</tr>
<tr>
<td>Th-F Dec 23-31</td>
<td>Winter Break/New Year's Holiday – college closed</td>
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Spring 2011

<table>
<thead>
<tr>
<th>Date</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Ongoing</td>
<td>Apply for admission, 2010-11 academic year</td>
</tr>
<tr>
<td>Daily Dec 1-6</td>
<td>Priority Online Registration</td>
</tr>
<tr>
<td>Daily Dec 7-Jan 28</td>
<td>Open Online Registration</td>
</tr>
<tr>
<td>Daily Jan 10-28</td>
<td>College Now! Online Registration</td>
</tr>
<tr>
<td>M Jan 17</td>
<td>Martin Luther King, Jr. Day – college closed</td>
</tr>
<tr>
<td>Th Jan 20</td>
<td>Staff Development Day</td>
</tr>
<tr>
<td>F Jan 21</td>
<td>All Staff Day</td>
</tr>
<tr>
<td>M Jan 24</td>
<td>Semester-length &amp; eight-week Term 3 credit</td>
</tr>
<tr>
<td>F-S Feb 11-12</td>
<td>Lincoln Day – college closed</td>
</tr>
<tr>
<td>M Feb 21</td>
<td>Washington Day – college closed</td>
</tr>
<tr>
<td>M Feb 28</td>
<td>Last day to drop without W, semester-length classes</td>
</tr>
<tr>
<td>M Feb 28</td>
<td>Last day to select PASS/NO PASS option, semester-length classes</td>
</tr>
<tr>
<td>F Mar 4</td>
<td>Last day to drop Term 3 classes</td>
</tr>
<tr>
<td>W Mar 16</td>
<td>Term 3 classes end</td>
</tr>
<tr>
<td>Th-F Mar 17-18</td>
<td>Final Exams – Term 3 classes</td>
</tr>
<tr>
<td>M Mar 21</td>
<td>Term 4 eight-week classes begin</td>
</tr>
<tr>
<td>Th Mar 24</td>
<td>Last day to register in or add Term 4 classes</td>
</tr>
<tr>
<td>T Apr 5</td>
<td>Last day to drop without W, Term 4 classes</td>
</tr>
<tr>
<td>T Apr 5</td>
<td>Last day to select PASS/NO PASS option, Term 4 classes</td>
</tr>
<tr>
<td>F Apr 8</td>
<td>Last day to file petition for spring diploma or certificate</td>
</tr>
<tr>
<td>F Apr 15</td>
<td>Last day to drop semester-length classes</td>
</tr>
<tr>
<td>M-S Apr 18-23</td>
<td>Spring Recess – no classes</td>
</tr>
<tr>
<td>Th May 5</td>
<td>Last day to drop Term 4 classes</td>
</tr>
<tr>
<td>W May 18</td>
<td>Last day of instruction – semester-length &amp; Term 4 classes</td>
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<tr>
<td>-- Pending</td>
<td>Community Education Spectrum classes end</td>
</tr>
<tr>
<td>Th-F May 19-20</td>
<td>Final Exams – Term 4 classes</td>
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<tr>
<td>Th-F May 19-20</td>
<td>Final Exams</td>
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<tr>
<td>M-W May 23-25</td>
<td>Final Exams continue</td>
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<tr>
<td>Th May 26</td>
<td>Scholarship Awards Ceremony</td>
</tr>
<tr>
<td>F May 27</td>
<td>Commencement</td>
</tr>
<tr>
<td>M May 30</td>
<td>Memorial Day – college closed</td>
</tr>
<tr>
<td>Th Jun 2</td>
<td>Spring grades due in Admissions &amp; Records by noon</td>
</tr>
</tbody>
</table>