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CraftonHills

COLLEGE

Crafton Hills College

11711 Sand Canyon Road Yucaipa, CA 92399 Telephone: (909) 794-2161 Web Address: www.craftonhills.edu A Public Community College in California

CATALOG 2003 - 2004

The purpose of this catalog is to provide information about Crafton Hills College, its philosophy, objectives, programs and course descriptions. While every reasonable effort has been made to ensure its accuracy, the catalog should not be considered an irrevocable contract between the student and the college.

The catalog is produced by the Office of Instruction in conjunction with Student Services and the Marketing and Public Relations Office.

Credits

Catalog Committee

Barra Barra Patrick Fite

Accredited by the Western Association of Schools and Colleges

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San Bernardino Community College District

Crafton Hills College Administration

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Alex E. Contreras, M.S.	Vice President, Student Services
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Virginia R. Moran, M.A.	Director, Research and Planning
John Muskavitch, B.S.	Director, Financial Aid
To be announced.	Director, Admissions and Records

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Robert J. Temple, M.A.	
Charles L. Whiteside, M.A.	Vice Chancellor, Human Resources & Employee Relations
Vacant	Director, Facilities and Planning
Raymond G. Eberhard, M.A.	Business Manager
Frank G. Reyes, M.A.	Assistant to the Chancellor/Governmental Affairs
Glen Kuck, M.A.	Director of Distributed Education
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Crafton Hills College Foundation

The Crafton Hills College Foundation is a tax-exempt organization established to receive gifts of both real and personal property as a basis for extending educational opportunities to students via scholarships, grants, loans, and other types of assistance.

Board of Directors

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	Debi Kelley, Gwenn Steward

Dear Student:

Crafton Hills College is dedicated to providing access to higher education and training for the advancement of our community. Our solid and unwavering commitment is to provide quality service and excellence in educational and training programs. We prepare students to meet their full potential and to become leaders and productive citizens in our community.



The college offers more than 53 majors in 38 degree programs and 15 occupational certification plans. An excellent faculty supports the instructional programs and provides an outstanding learning environment. An expanded Learning Center that includes both a writing and a math center provides academic support and tutorial services. In addition, students receive support services within the areas of Counseling, Financial Aid, Extended Opportunity Programs and Services (EOPS), Career Center, Transfer Center, Disabled Student Programs and Services (DSPS), Health Services, Workforce Readiness Training, and Admissions and Records. Opportunities for co-curricular activities are available through student government, campus clubs, and organizations.

For more than three decades, the transfer program has prepared students well for the four-year colleges and universities. The number of graduates receiving two-year Associate in Arts or Associate in Science degrees has increased by more than 1,000 percent since 1972. Our occupational education programs, such as Radiologic Technology, Respiratory Therapy, Emergency Medical Services, and Computer Information Systems, have become cutting-edge programs in high technology and are preparing students for the challenges of the future. Our Fire Technology and Paramedic programs have earned regional and national recognition and are heavily subscribed. Cultural enrichment programs such as the annual Native American Gathering Pow-Wow and the annual CHC Baroque Festival have become mainstays of the College and of the community at large.

The last few years have been especially exciting and gratifying as the campus accomplishes its planning goals. The college continues to implement its High Technology Plan so the college is at the cutting edge of computer technology. The Child Development Center reopened as a college run operation that is integrated with the college's Early Childhood Development and Teacher Education programs. We have completed the centralization and remodeling of student services so that students may receive services more efficiently. Last fall, a new bookstore and classroom facility was completed on the east end of the campus. The new facility tripled the size of the bookstore and provided four large classrooms to accommodate more students.

In the next few years, Crafton Hills College, in conjunction with its county and city partners, will continue its efforts to start construction of a San Bernardino Regional Emergency Training Center at the International Airport site. Additionally, Crafton Hills College is working with its partners in K-12 and Higher Education to increase communication and facilitate access to educational and training opportunities for the citizens of the Inland Empire.

Crafton Hills College acknowledges the commitment, dedication, and hard work of the faculty, staff, and administrators who have contributed so much to the college's mission.

We are proud that more than 90,000 students in the past and 5,300 current students have chosen the College as the place to pursue their dreams.

Sincerely,

Eloria M. Hanison

Gloria Macias Harrison President



SECTION I

General Information About the College

Crafton Hills College (CHC) is one of 108 campuses in the California Community College system, the largest college system of higher education in the world. Since its opening in 1972, learners of all ages, interests and backgrounds have passed through the doors of CHC, taking advantage of this first step to higher learning. As new businesses and industries settle in this region, CHC continues to increase in importance as a source for a college education and career training. Crafton Hills currently serves approximately 5,300 students and offers both day and evening classes. CHC is accredited by The Western Association of Schools and Colleges, the accrediting body for California and the Western Pacific.

Located on rolling hills above the Yucaipa Valley and surrounded by an undisturbed natural environment, Crafton Hills offers more than 50 majors in the liberal arts and sciences, vocations and technical studies. With its imaginative architecture, manicured grounds and spectacular surroundings, the atmosphere of the college is one of serenity -- right for reflection, growth and learning.

What sets the campus apart from many others is that, in addition to quality instruction, many of the professors are experts in their field outside the classroom. Also, the small size of the college allows for much more one-on-one communication between instructors and students. CHC instructors are noted for being accessible and caring about the students as individuals. Whether you're a new student just getting started at college, or you're returning to college after having been out of school for a while, CHC has an experienced and caring counseling staff to help you. No matter what your age, it is never too late to go to college. The counselors are available for consultation throughout your college experience here. At CHC, there is still that personal touch.

Besides counseling, there are many other student services available to help you achieve your higher education goals. These include Financial Aid, Extended Opportunity Programs and Services, Career Center and Job Placement Office, Disabled Student Services, Workforce Training, and more. You can find information about these and other student services in this catalog. Counselors can answer questions about these services and refer you to the respective offices.

CHC has a Child Development Center for CHC students who need child care services while attending school. The CHC Child Development Center is operated by the college and cares for children from infancy through 5 years of age. It also has a preschool. The Center and the Child Development Program function collaboratively to provide the best education possible for the children and our child development students.

An important priority at the campus is technology. Last year, CHC installed 100 new Intel Pentium 4 computers in two classrooms, paving the way for new computer courses and giving students access to the latest in computer technology and software. During the past seven years, the college has purchased more than 900 new computers and state-of-the-art software for classrooms and college-wide computer labs. These computers bring CHC to the top of technology in the classroom. CHC offers a wide range of computer classes, including beginning classes.

In addition to student-centered classes and an able counseling and career guidance staff, CHC provides a variety of cultural, social and recreational opportunities. Each year, the college presents its Annual Baroque Festival, which features the art, music, dance and history of the world during the era of the Baroque. CHC also has a highly regarded Theatre Arts Department, which is renowned for its excellent productions of award-winning Broadway plays, musicals, and the classics. Students have extra-curricular opportunities to explore their interests in clubs, student government and educational field trips to various locations in the world. For recreational activities, the college's P.E. Department oversees a six-hole golf course, outstanding gym facilities, and tennis courts.

Above all, CHC is a place for learning and personal growth. It has established a reputation for quality and a willingness to respond quickly and reasonably to community needs.

CHC operates on the semester system. Fall semester begins in August, spring term starts in January, and summer session opens in June.

BACKGROUND

Crafton Hills College is one of two public community colleges serving the San Bernardino Community College District. The other is San Bernardino Valley College. Both are tax-supported, coeducational institutions governed by a locally elected board of trustees acting through a district chancellor and the president of each college.

In the fall of 1972, classes were held for the first time at Crafton Hills College. The campus buildings and grounds provide an environment essential to support a comprehensive community college.

The areas from which the College generally attracts students include Bear Valley, Colton, Redlands, Rialto, Rim of the World, San Bernardino, and Yucaipa. However, students also come from all over California, out-of-state, and foreign countries. The students are as diverse as the areas they represent.

Some students come to the College directly from high school and pursue full-time transfer or occupational programs. Others study part time to prepare for return to work or to improve their chances for advancement. Some arrive with superior academic backgrounds, some in need of considerable remedial aid. The average age is twenty-seven. More than half the students are females. Some students stay to complete a program; others prepare for eventual transfer to four-year colleges and universities or directly enter the workplace.

Students choose Crafton Hills College because of its setting, its dedicated faculty, its interesting courses, and its variety of educational opportunities.

MISSION STATEMENT

In a serene, welcoming environment, Crafton Hills College promotes learning through self-discovery and the acquisition and application of knowledge and skills.

This mission is carried out in a dynamic educational community that encourages intellectual curiosity and fosters an openness to a wide range of people and ideas.

OBJECTIVES AND FUNCTIONS

The principal objective of Crafton Hills College is to facilitate students' learning so they can attain realistic goals commensurate with their needs and abilities. The primary means for achieving this goal is the educational program of the College; all other functions of the college are justified insofar as they support learning. While the result of some learning is intangible, most learning is indicated by a change in the attitude and behavior of the learner. Some changes represent new departures for the student; others are simply further refinements and developments of skills, viewpoints, and knowledge.

The College provides a variety of courses and programs designed to reach the institution's basic goal. As students pursue their programs of study, they should strive toward an understanding of their scientific and cultural heritage; the ability to define and solve problems on the basis of relevant facts and reasonable alternatives; the identification of a preferred pattern of living and a means of achieving it; occupational and professional proficiency; mental and physical health; the ability to interact effectively with other people intellectually, socially, and physically; the acceptance of responsibility; and an awareness of the usefulness and desirability of further learning.

In pursuit of the goals stated above, the College offers course work and assistance to students in the following broad areas:

- 1. Lower division curricula for transfer to senior colleges and universities, applicable to the baccalaureate degree;
- 2. Occupational programs for entry into specific vocations and further training for increased occupational effectiveness while pursuing a vocation;
- 3. General education that provides a fundamental learning foundation and stimulates intellectual curiosity;
- Continuing education for citizens in the community who may desire further preparation in general education or in a vocational field;
- 5. Programs in basic skills for increased effectiveness in pursuing the basic objectives of the College;
- 6. Advising and counseling for educational, occupational, and personal planning.

Admissions Procedures

ELIGIBILITY

Admission to Crafton Hills College is open to you if you meet any one of the following requirements:

- 1. Are eighteen years of age or older and can benefit from instruction offered by the College.
- 2. Are a high school graduate.
- 3. Have a G.E.D. (General Education Development) Certificate.
- 4. Have a California High School Proficiency Certificate.

PRE-ENROLLMENT ASSESSMENT

Every new student is strongly encouraged to participate in the assessment process. This process is designed to assist students in choosing the correct classes. The assessment process is required to determine placement in English and mathematics classes at Crafton Hills College. The assessment instrument is a multiplechoice instrument covering reading comprehension, sentence skills, arithmetic and elementary algebra. Preparation is not needed for the test since it is designed to measure your current skills in each area.

Assessment is provided on a drop-in basis.

Plan on two hours to complete the assessment process.

For questions you may contact the assessment center at (909) 389-3361 or email at <u>testcenter@craftonhills.edu</u>

NOTE: As a new student, you may obtain an assessment waiver if you fall into one of the following categories:

- 1. You have completed an Associate of Arts or Sciences degree or higher. (Provide Transcript)
- 2. You have completed 30 or more semester units of college work at another college or university. (Provide Transcript)
- 3. You have completed pre-requisite courses with a grade of "C" or better. If you have not completed pre-requisite courses in both mathematics and English, you must take the assessment in the area not met. (Provide Transcript)
- 4. You have scored 3 or higher on the Advanced Placement Test (College Board) in English and/or mathematics. (Provide Transcript)
- 5. You are only enrolling in courses at Crafton Hills College to maintain certificate or license requirements.
- 6. You are only enrolling in 6 units or less of courses for personal enrichment (e.g., PE, Music, Art) up to a cumulative total of 12 units (once you have reached 12 units of course work you will be required to participate in the assessment process).
- 7. You have taken a placement exam at one of the other San Bernardino or Riverside County community colleges or you have taken the Accuplacer Assessment Test at another college in the last two years and you provide scores and placement recommendations from the other college.

NEW STUDENTS

- 1. Fill out an application (inside schedule) or online at <u>www.craftonhills.edu</u> and (a) take it to the Admissions Office in the Student Services Administration Building (SSA), room 213, or (b) mail it to the address on the application. If you complete the application online or if you mail it you will need to visit the Admissions office to complete your residency verification.
- 2. Have your official high school/college/university transcripts sent to the Admissions Office at Crafton Hills College. You can request the transcripts from the records office at your high school or the college/university that you previously attended. You may want to request an additional copy for your records at the same time.

HIGH SCHOOL STUDENT SPECIAL ATTENDANCE POLICY AND PROCEDURES

Crafton Hills College may admit high school students who are capable of profiting from college courses.

To be eligible:

- 1) The student must take advanced scholastic or vocational course(s).
- 2) The student must have a Grade Point Average (G.P.A.) of 3.0 or better.

*Exceptions to this criteria may be considered for high school students requesting to enroll in articulated vocational education programs at Crafton Hills College. Petitions requesting this exception must be accompanied by a letter of recommendation from the high school counselor.

To Petition for Special Attendance, students must submit:

- 1. A completed Crafton Hills College Application for <u>each term</u> requested.
- 2. A completed Special Attendance form (available from high school counselor), signed by a high school counselor and parent/guardian of the student for each term requested.
- 3. Official High School transcripts (delivered in a sealed envelope).
- 4. All documentation must be submitted to the Admissions and Office no later than 3:00 p.m. the Friday before Arena Registration (refer to Class Schedule for Arena Registration dates).

High school students approved for Special Attendance may register in transfer courses (course numbers 100-299) during open WEB/Telephone registration (Please refer to class schedule for dates). The WEB address is_www.craftonhills.edu., ETR phone is (909) 884-1441.

Courses taken must not duplicate courses currently available in the high schools and may be taken for college credit <u>only</u>.

Requested college course loads will be reviewed and approved on an individual basis by the CHC Petitions Committee. Registration Appointments will be given upon approval of petition.

TRANSFER STUDENTS

Students who transfer from other accredited colleges and want credit for courses taken there must submit official transcripts to the Admissions and Records Office at Crafton Hills College. Transcripts will be evaluated by the Counseling Department and College Registrar according to the scholastic standards policy of the San Bernardino Community College District.

CALIFORNIA RESIDENCY

A District residence, non-District residence, or non-residence classification shall be determined for each student at the time an application for admission is accepted and whenever a student has not been in attendance for more than one semester. The residence determination date is that day immediately preceding the first day of instruction for the semester, or other session as set by the Board of Trustees. A student previously classified as a nonresident may be re-classified as of any residence determination date.

DETERMINATION OF RESIDENCE

- A. Adults every person who is married or who is 18 years of age or older on the residence determination date may determine his or her own residence.
- B. Minors those persons under 18 years of age may establish residence in accordance with the following:
- 1. Married minors may establish their own residence.
- 2. If the parents are separated permanently, the residence of the minor is the residence of the parent with whom he/she lives.
- 3. If both parents are deceased, and there is no court-appointed guardian, the minor may establish his/her own residence.

- 4. A student who remains in the state after his/her parents, who had legal residence in California, have established residence elsewhere, shall be entitled to retain resident classification until he/she has attained the age of majority and has resided in the state the minimum time necessary to become a resident so long as continuous attendance is maintained at the institution.
- 5. A student may combine his/her time as a resident minor with his/her time as a resident adult to establish the one year necessary for California resident classification.

REQUIRED DOCUMENTS FOR RESIDENCE DETERMINATION

Students shall be required to present evidence of physical presence in California and intent to make California their home for other than a temporary purpose. To accomplish this, the following individual information may be used to establish personal identification and intent to be a California resident at the time applications are accepted:

- 1. California Driver's license, current and valid.
- 2. Voter registration receipt.
- 3. Evidence of submitting California income tax forms.
- 4. California bank statements (checking and/or savings).
- 5. Rent or lease receipts for the past six months.
- 6. Immigration and Naturalization Service "green card" or Immigration and Naturalization I-94 in passport.
- 7. High school or other college transcripts/grade forms.
- 8. Military service orders for active military personnel.
- 9. Military dependents complete the California Residence Classification for Active Military Personnel form (attached to the application).
- 10. Federal income tax forms with California as the home address.
- 11. Licensing from California for professional practice.
- 12. Active membership in service or social clubs.

EXCEPTIONS TO RESIDENCE DETERMINATION

- A. A student who is a member of the Armed Forces on active duty in this state shall be entitled to residency status.
- B. A student who is a natural or adopted child, stepchild or spouse and who is a dependent of a member of the armed forces of the United States stationed in this state on active duty shall be entitled to resident status until the student has resided in the state the minimum time necessary to become a resident, as long as continuous attendance is maintained at an institution. Should the member of the armed forces of the United States be thereafter transferred on military orders directly to a place outside the United States, where the member continues to serve in the armed forces of the United States, the student shall not lose the resident status until he/ she has resided in the state the minimum time necessary to become a resident, as long as continuous attendance is maintained at an institution.
- C. A student who is an adult alien will be entitled to resident status if lawfully admitted to the United States for permanent residence in accordance with all applicable laws of the United States provided that he/she has had residence in the

state for more than one year after such admission prior to the residence determination date for the term for which he or she proposed to attend an institution.

- D. A student who is a minor alien will be entitled to resident status if both he/she and his/her parents have been lawfully admitted to the United States for permanent residence in accordance with all applicable laws of the United States, provided the parent has had residence in the state for more than one year after such admission, prior to the residence determination date for the term for which he or she proposes to attend an institution.
- E. A student who is an apprentice, as defined in Section 3077 of the Labor Code, will be entitled to resident status for school attendance.
- F. A student holding a valid credential authorizing service in a public school and employed in a certificated full-time position by a community college district will be given resident status.
- G. A student who is a full-time employee of an educational institution of higher learning, or whose parent or spouse is a full-time employee, will be entitled to resident status until he/she has resided in the state the minimum time necessary to become a resident.
- H. A student who (1) has not been an adult resident of California for more than one year and (2) is the dependent child of a California resident who has had residence in California for more than one year prior to the residence determination date shall be entitled to resident status. This exception shall continue until the student has resided in the state the minimum time necessary to become a resident, as long as continuous attendance is maintained at an institution. (ECS 68076)

RESIDENT STATUS APPEAL

Any student, following a decision on residence status by the college, may make written appeal to the Admissions Office within fourteen calendar days.

COSTS

See class schedule for fees and other costs. People who are not legal residents of California must pay the current non-resident tuition fees.

NO ONE FACTOR IS DECISIVE

Intent to become a resident may be determined by complying with at least two of the conditions listed above. Physical presence within the state solely for educational purposes does not constitute establishing California residence, regardless of the length of that presence. The one-year residence period which a person must meet to be classified as a resident does not begin until the person is both present in California and has manifested clear intent to become a California resident.

INTERNATIONAL STUDENTS

Crafton Hills College is approved by the Immigration and Naturalization Service to admit non-immigrant F-1 Visa international students. The number of such students permitted to enroll may be limited at the discretion of the President of the College.

In order to be considered for admission, all applicable materials must be submitted by the following deadlines:

	U
May 1	for Fall Semester
November 1	for Spring Semester
March 15	for Summer Session

REQUIRED MATERIALS:

1. A completed application form.

Note: An application form may be obtained by writing to Admissions and Records Office Crafton Hills College 11711 Sand Canyon Road Yucaipa, California 92399 U.S.A.

- 2. Test of English as a Foreign Language (**TOEFL**) Test Score (not required of students from a country where the native language is English). A minimum score of 500 is required. Note: Copies of the *TOEFL Bulletin of Information for Candidates* are available at most American embassies. The application to take the TOEFL test must be received by the Educational Testing Service at least four weeks before the testing date.
- 3. Official transcripts of all previous secondary school and college work, including an English translation. A letter of reference from a prominent person in your community, verifying character, background, and ability.
- 4. A non-refundable application processing fee of \$25.00 in the form of a money order made payable to Crafton Hills College.
- 5. Official documentation of birthdate. No international students under eighteen years of age will be admitted.
- 6. A recent photograph. Photocopies are not acceptable.
- 7. Verification of a recent chest X-ray or skin test that indicates a negative tuberculosis test. Note: X-ray or skin test must be done in the United States. The results must be on file with the College within the first month of attendance.
- 8. An affidavit of financial support.
- 9. When all requirements have been met, a letter of acceptance will be mailed. An I-20 will be mailed upon receipt of the first semester's fees in American dollars in the form of a money order.

The following rules apply to international students at Crafton Hills College:

- 1. You must be in the local area no later than August 1 for Fall Semester and January 4 for Spring Semester.
- 2. You are responsible for finding your own housing in nearby communities. The College does not have living facilities on campus.
- 3. First semester fees must be paid before an I-20 is issued.
- 4. You must report to the Student Services office at the College when you arrive in the area and present your Visa, I-94, I-20. These documents will be copied and filed. The counseling and registration procedure will be explained at that time. Subsequently, you must pay all required fees at the time of registration.

- 5. You may attend Crafton Hills College for a maximum of five semesters. You must take twelve or more units each semester.
- 6. You must present proof of enrollment in an international health insurance plan.



A team of committed student services professionals will assist you to achieve your educational and training goals. Listed below are descriptions of services now available.

Athletics

Crafton Hills College does not offer a program of intercollegiate athletics. However, Crafton Hills College students may participate in the athletic program at San Bernardino Valley College just as if they were enrolled at San Bernardino Valley College.

CalWORKs Program

This program is a statewide employment initiative designed to assist students who are on public assistance. It is a program that provides EDUCATION, TRAINING AND SUPPORTIVE SERVICES to eligible students.

FOCUS:

- Assist students to successfully complete an approved certificate/occupational program.
- Provide short-term educational training programs designed to assist students in obtaining employment.
- Assist in employment experiences on and off campus.
- Assist with childcare needs.
- Provide critical support services such as assessment, counseling, and tutoring.
- For more information and questions call (909) 389-3239.

Career Center

Specialized services to assist students with transfer and career planning are available in Transfer/Career Center in the Counseling Office SSB 201. Students planning on transferring to a university or other institution may explore options or identify the requirements necessary for a successful transfer. Representatives from local universities are available by appointment throughout the year to specifically advise students on transfer to their institution. Workshops on preparing applications as well as other topics related to transfer are provided in the Transfer/Career Center. Students who would like to participate in career exploration activities or need assistance in preparing a job search, writing a resume and interviewing techniques can receive assistance through the Center. The Center also provides a referral service for jobs available to students on campus and in the community. For information and questions call (909) 389-3366.

Counseling

The college provides counseling services to current and prospective students. Students who wish to receive assistance with making career choices or with planning a program of study to complete a certificate, degree or transfer requirements are encouraged to see a counselor. Counselors will assist students with planning a program of study that will allow students to transfer to the university or other post-secondary institution of their choice using current articulation agreements and other pertinent information. For students who would like assistance with the selection of a career pathway, counselors have access to a wide assortment of resources, including instruments which evaluate career interests and values, as well as professionally prepared career guidance materials. Students who may encounter personal issues that affect their ability to succeed in school are also encouraged to see a counselor who can assist the student with accessing appropriate support from college and community resources. The Counseling Center is located in SSB 201. For questions and information call (909) 389-3366.

Disabled Student Services (DSS)

Crafton Hills College offers a comprehensive program of support services to students with disabilities. Students who have a physical disability or a learning disability are eligible for services, which are provided according to individual need.

Support services are provided as appropriate. These include priority registration, special parking, tram services, and tutors. In addition, specialized counseling, career and program guidance, and community liaison activities are available.

Office: SSB-108

Office Hours: Monday-Thursday 8:00 am to 7:00 pm Friday 8:00 am to 4:00 pm For additional information, call the Disabled Student Services at (909) 389-3325 or TDD (909) 794-4105.

Extended Opportunity Programs and Services / Cooperative Assistance Resources for Education (EOPS / CARE)

The Extended Opportunity Program and Services is a State funded program designed to assist in the admissions process of historically disadvantaged, low-income students. The aim of the program is to provide the necessary encouragement, support, and assistance to develop or redirect the abilities of these students to the fullest so they may be able to undertake and complete the challenges of a higher education.

Supportive services include tutoring, academic counseling, and financial aid assistance. Crafton Hills College admits the graduate of any high school and also any student who has not graduated from high school but who is at least eighteen years of age and can benefit from instruction. Eligibility guidelines addressing annual family income levels are established by State regulations. Please check with the EOPS/CARE office or the current class schedule for the most recent income guidelines.

To apply for the program, just write the

EOPS/CARE Office

Crafton Hills College 11711 Sand Canyon Road Yucaipa, California 92399

Telephone: (909) 389-3239 Office: SSA-307



Cooperative Agencies Resources for Education

The EOPS Program also offers the CARE (Cooperative Agencies Resources for Education) to EOPS students who are single parents on TANF/CalWORKs with children under the age of fourteen. CARE services are in addition to what a student would receive as an EOPS student.

EOPS/CARE Summer Readiness Program

The Summer Readiness Program is designed to assist first-time students (with no previous college experience) with acquiring specific skills important in making a successful transition into college. The program provides a great opportunity for students to experience and become acquainted with the necessary college survival skills and avoid the typical adjustment problems encountered upon entering college for the first time.

There is no cost to qualified eligible students who enroll in the program. All educational costs (books, supplies, etc.) are paid by EOPS/CARE. Students who successfully complete the six week program will be awarded an EOPS/CARE grant.

As a supplemental component of the EOPS program, CARE provides educational support services designed for the academically under-prepared, low income, single parent population. Grants and allowances for educationally related expenses are available.

Financial Aid/Loans, Grants, and Employment

The Financial Aid office helps students seeking financial help to pay for the costs of attending Crafton Hills College. Money is provided to cover the cost of enrollment fees and/or tuition, books, transportation, and partial living expenses. Students may be working and still qualify for financial assistance.

There are basically two types of financial aid: grants and self help (such as work study and loans). Grants are awarded on the basis of financial need and do not require repayment. Loans provide an opportunity to defer educational costs by borrowing now and paying later. (Please ask for a copy of the Crafton Hills College loan policy in the Financial Aid Office.) Work study offers students the opportunity to earn a portion of their college expenses through part-time employment during the school year. The Free Application for Federal Student Aid (FAFSA) must be used when applying for financial aid. Applying on time is critical. Be sure to contact the Financial Aid Office regarding deadlines. The completed FAFSA should be mailed to the federal processor after January 1, but no later than the last day of the previous spring semester, in order to ensure funds will be available for the beginning of fall semester in August.

After receiving the FAFSA, the federal processors will forward a Student Aid Report (SAR) to the student. Students should review this form. If changes are necessary, make the corrections on Part II of the SAR and return it to the Federal Student Aid Programs at P.O. Box 7004, Mt. Vernon, IL 62864. If no changes are necessary, the student should keep the SAR for his/her records. Students are not required to submit the SAR to the Financial Aid Office. It is important, however, that all requested documentation be returned as soon as possible. Financial Aid awards are made only *after* a student's file is complete.

On-time applicants (those who have complete applications by the last day of the previous spring semester and who have returned all requested materials) can expect to receive a financial aid award letter by July. Students receiving financial aid are expected to make satisfactory academic progress toward their educational goal. This includes completing all classes for which aid is received.

The Financial Aid staff is here to assist you. Students often find applying for financial aid a difficult and confusing process. Those needing help or advice are encouraged to go to the Financial Aid Office. For information and questions call (909) 389-3223.

• TYPES OF FINANCIAL AID

1. BOARD OF GOVERNORS ENROLLMENT FEE WAIVER

This waiver is available to California residents to cover resident enrollment and health fees. Students must demonstrate financial need by completing the Free Application for Federal Student Aid (FAFSA) or the Board of Governors Enrollment Fee Waiver Application. The maximum waiver is equal to the community college enrollment and the health services fees.

2. CAL GRANTS

The California Student Aid Commission offers three grants for which Crafton Hills College students are eligible to apply. The deadline to apply for these programs for the following year is March 2 and September 2. Students interested in this program must meet the published deadline; no exceptions are made. To apply students must complete the Free Application for Federal Student Aid (FAFSA) and a GPA Verification form (both forms are available in the Financial Aid Office).

3. FEDERAL PELL GRANT PROGRAM

Crafton Hills College participates in the Federal Pell Grant Program, which provides federal grants of approximately \$3,713 per year for students, depending upon the financial ability of the family and/or individual to contribute to the cost of higher education (as determined by a federal methodology). Applicants must be US citizens or eligible non-citizens and complete the Free Application for Federal Student Aid (FAFSA) and other required supplemental materials. All application materials are available in the Financial Aid Office. Students may apply for a Federal Pell Grant any time after January 1, 2003 until June 1, 2004.

4. FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG)

Crafton Hills College participates in the Federal Supplemental Educational Opportunity Grant program, which provides federal grants to a maximum of \$1,500 per year for students who qualify. The average grant at Crafton Hills College is \$500. Applicants must be US citizens or eligible non-citizens and complete the Free Application for Federal Student Aid (FAFSA) and other required supplemental materials. All applications materials are available in the Financial Aid Office.

5. FEDERAL WORK STUDY

Students who are interested in the federal work study (FWS) program are required to complete a Free Application for Federal Student Aid (FAFSA) and other supplemental materials. All application materials are available in the Financial Aid Office.

6. FEDERAL FAMILY EDUCATION LOAN PROGRAM

The Federal Subsidized Stafford Student Loan program is a federally supported loan available to needy students. Eligible Crafton Hills College students may borrow between \$500 and \$3,500 based on their need, year in school, and satisfactory academic progress. Students must be eligible for need-based aid to receive a Subsidized Stafford Loan. There is no repayment or interest accrual while a student is enrolled at least half-time. Six months after ceasing at least half-time enrollment, a variable interest rate (In 2002/2003 this interest rate was 4.06%.) begins to accrue and payments begin at a minimum of \$50 per month. There is a maximum of 10 years to repay the loan.

To apply for a loan under the Federal Family Education Loan Program, a student must complete a Free Application for Federal Student Aid (FAFSA) and attend an "entrance interview" with a member of the Financial Aid staff. Students may come to the Financial Aid office to receive a copy of the student loan policy.

Health and Wellness Center

Student Health Services contributes to the well being and educational aims of the students through health-oriented activities and services. A primary function of the center is to assist the student in maintaining health. The student learner who is at a high level of health or wellness is better able to pursue his/her goals. Health is not limited to the absence of disease but is a dynamic balance with physical, emotional, and social health elements. Illnesses, injury, and stress hinder the energy and attention a student has to focus on learning, study, and class attendance. Through supportive health services it is possible to assist and further the educational experience.

Services include the following: (a) health education and counseling programs; (b) assessment, intervention, and referral services, which include health appraisal, screening, first aid and urgent care, nursing services, mental health counseling and crisis intervention; (c) health promotion activities; (d) communicable disease surveillance and control programs; (e) illness and injury prevention programs and services; (f) advisory and consultative activities for promotion of a safe and healthful campus environment. The Student Health Services Office is located in SSB 101, for information and questions call (909) 389-3271.

Housing

Crafton Hills College has no dormitories and therefore cannot assume responsibility for student residence. However, you can get information regarding housing accommodations from the Counseling and Career Center.

Student Activities

Associated Students of Crafton Hills College

The Associated Students of Crafton Hills College (ASCHC) is recognized by the San Bernardino Community College District Board of Trustees and the administration of Crafton Hills College as the representative body for students in the governance of the College and the District. Membership is open to all students. Many student activities and other membership benefits, including discounts at local businesses and the college bookstore, are provided through the sale of ASB cards.

The governing body of ASCHC is the Student Senate. The Senate oversees all student activities and is responsible for budgeting and allocating Student Body funds, Student Center Fee funds, and Student Representation Fee funds. Officers are elected in the spring for one-year terms. Senate meeting times and agendas are posted in the Senate office, next to the Cafeteria/Student Center.

In addition to supporting various student activities and events on campus, the Student Senate sponsors and supports special-interest clubs and organizations. Some of the active organizations are:

- Accounting and Business Association
- Alpha Gamma Sigma (AGS)
- Black Student Union (BSU)
- Campus Christian Club (CCC)
- Movimiento Estudiantil Chicano de Aztlan (MEChA)
- BETA II (Respiratory Therapy Club)
- Student California Teachers Association (SCTA)
- American Indian Association (AIA)
- Terrestrial Investigation Club (TIC)

For information and club meeting times, call or visit the Student Senate Office, located next to the Cafeteria, on the west end of the campus.

The Student Senate Office sells discounted tickets to amusement parks and Omnitrans Bus passes and Associated Student Body (ASB) cards. Fax service for students is also available in the office (Contact the Senate office for rates and more details). In addition, students may obtain their student I.D. cards in the Student Senate Office. The Student Senate Office is located in the Campus Center Building next to the Cafeteria. For questions or information, you may call (909) 389-3410.

Student Matriculation

New, non-exempt students enrolling in California community colleges must participate in a matriculation process. Matriculation is a process which brings together a college and a student who enrolls for credit into an agreement for the purpose of realizing the student's educational objective. The agreement includes the provision of an admission process, college orientation, pre-enrollment assessment, advisement and counseling for course selection, a suitable program of studies, and follow-up on student progress. The student agrees to express at least a broad educational objective at entrance. He or she also agrees to declare a specific educational objective within a reasonable period of enrollment, attend class and complete coursework diligently, and maintain progress toward an educational goal.

The purpose of Matriculation is to ensure access to appropriate programs and courses offered by community colleges to all students who can benefit, and to facilitate successful completion of student educational objectives in accordance with applicable standards of educational quality as determined by the Board of Governors and local trustees.

Appeals

The college provides an appeals process. Consult a counselor for review of the following matriculation concerns:

- 1. Review of placement decisions.
- 2. Waiver & challenge of prerequisites.
- Complaint of unlawful discrimination. If a student feels that assessment, orientation, counseling, prerequisites, or any other matriculation procedure is being applied in an unfair manner, he or she should consult with the Vice-President of Student Services or designee.

Orientation

PCD 055 (Personal Career Development) is a course which meets the requirements of California's Matriculation Plan. The course is required for all new students. The course includes:

- 1. An introduction to college life and requirements.
- 2. Orientation to the services, policies, and philosophy of Crafton Hills College.
- 3. Explanation of the function and scope of a community college.
- 4. Information on certificate programs, Associate Degree requirements, and transfer requirements to four-year colleges and universities.
- 5. Career/Life Planning, interest inventory test, and occupational research.
- 6. Development of Student Educational Plan.
- 7. Debt management.
- For information or questions call (909) 389-3366.

Student Success Program

The Student Success Program is designed to assist new and continuing students with negotiating the sometimes confusing and frustrating processes of the college learning environment. Student Success Advisors are available to answer student questions, and to connect students to the myriad of resources available to the college. New and continuing students who do not know where to begin to get their questions answered or problems solved are welcome to call the Student Success Advisors, who will lend a friendly ear and assist the student with successfully resolving their problems. Students are encouraged to give the Student Success Program a call or stop by the office if they have any questions or if they encounter any problems with attending class or successfully completing coursework. The Student Success Program is located in SSB 203. Counselors are available Monday through Friday during counseling hours. Students may also call the office at (909) 389-3450 or email the program at embell@craftonhills.edu.

Support Services

In order to help you achieve a satisfying educational experience, Crafton Hills College provides a number of support services.

Library

Located at the center of the campus, the Library supports the teaching program of the college with more than 63,000 book titles, 1100 full-text periodicals on ProQuest, and 20 Internet computers. Our online catalog of books, videos, music CD's, and some online reference materials can be accessed on the CHC website over the Internet. ProQuest can also be searched from our website over the Internet from your home.

Library cards are free to Crafton Hills College students and to residents of the community. Inland Empire Academic Libraries Cooperative Library cards are also available free to Crafton Hills College students, making it possible to check out the books of 20 other college libraries throughout the Southland. For information and questions call (909) 389-3321.

• Learning Center (TLC)

Various academic support services are provided for students and faculty through The Learning Center (TLC), located on the third floor of the Library building. Both a Math Center and a Writing Center are housed here, providing heightened service in those areas. In the TLC, students can enroll in self-paced classes in reading or study skills; have access to computers; engage in tutoring for various subjects, have exams proctored and practice language drills. In addition, TLC provides access to instructional audio or video tapes. Students facing challenges in their course work are encouraged to visit TLC early and often. For questions or information call (909) 389-3312.

Bookstore

Textbooks and supplies are sold at the College Bookstore. For most of the academic year the Bookstore is open 7:45 a.m.-7:00 p.m. Monday-Thursday and 7:45 a.m.-3:00 p.m. Friday. However, at the beginning of each academic term the Bookstore also maintains additional hours for a short period of time.

For our students convenience, the Bookstore has a website where they can retrieve textbook information, reserve books at the beginning of the semester or purchase textbooks on line.

Web Address: http://bookstore.craftonhills.edu

Veterans' Services

The College is fully approved to educate and train veterans under Federal and State laws and enactments. To receive veterans' benefits, however, you must be certified by the College to the Veterans Administration. Regulations demand certain materials be submitted to the Office of Admissions before you can be certified. They are:

- 1. A completed application for admission;
- 2. One copy of your DD-214, for your initial enrollment;
- 3. Official transcripts from all colleges/military schools you have attended;
- 4. Meet with Veterans Counselor to receive help in developing your career plan and program of study.
- 5. Enroll in your classes.
- 6. Turn in Veterans Enrollment Approval Form.

Please attend to these matters as soon as possible. It takes six to eight weeks for the Veterans Administration to process your request. For information and questions call (909) 389-3370.

Instructional Programs and Services

Crafton Hills College offers a wide variety of instructional programs and services to the community.

Cooperative Work Experience Education

Crafton Hills College offers working students the opportunity to receive two, three, or four units per semester based upon their employment. Students working 10 hours a week in paid positions or eight hours a week in volunteer positions are eligible for two units, three units are available for 15 hours a week in paid positions or 12 in volunteer positions, and four units may be taken if working 20 hours in paid positions or 16 in volunteer positions.

With the support and cooperation from the student's supervisor and the Work Experience Coordinator, each student will learn to establish and accomplish well-defined objectives in the work place, develop work ethics and gain an insight into interpersonal skills necessary to succeed.

Occupational Work Experience is offered to students who are currently working in one of the following majors: Accounting, Administration of Justice, Allied Health, Business Administration, Child Development, Computer & Information Systems, Emergency Medical Services, Fire Technology and Marketing. Two to four units may be taken each semester for a maximum of 16 units.

Students may earn two to three units per semester for a total of six units and need not be enrolled in a related course for General Work Experience. Both Occupational and General Work Experience require students to maintain a minimum of 7 units, including Work Experience, throughout the semester. In addition, students must attend one class meeting during the first two weeks of school and meet once individually with the Coordinator. Classes are offered on Monday and Thursday afternoons from 1:00 - 3:00 p.m. and again in the evening from 5:00 - 7:00 p.m.

Distributed Education

The mission of the Distributed Education Program of the San Bernardino Community College District is to expand access and provide greater flexibility to distant learners utilizing current and new technologies to deliver quality educational opportunities and to facilitate the attainment of students' personal and academic goals. Students enroll in Distributed Education courses at normal registration times, by mail, or through telephone registration. For additional information, call the Distributed Education office at (909) 384-4325.

Telecourses

Telecourses air over KVCR-TV, which is carried widely on area cable systems. Students who enroll in these courses attend oncampus orientation meetings, discussion sessions, and special lectures. There are generally five on-campus meetings. They also take on-campus examinations, but the majority of the course activity is engaged in wherever students find it convenient to view the television lectures, which are the key component of each of these courses. Students base their study in these courses on textbooks and specially prepared study guides that complement the TV lectures.

Online Computer Courses

Online courses require students to have access to a computer connected to the Internet. Certain online courses also require a CD-ROM drive and sound output (such as headphones or speakers). Online classes usually have several on-campus meetings, but the rest of the learning activities are mediated through the computer and the Internet. Please check the current class schedule for information on the online courses being offered, or <u>http://learnonline.sbccd.cc.ca.us</u> for links to Distributed Education and the college.

Evening College

The college offers a wide range of courses during the evening hours. These offerings make it possible for students who cannot attend classes during the day to pursue their educational goals, whether to prepare for transfer to a four-year institution, prepare for a specific occupation, upgrade work skills, work toward an associate degree, or engage in studies which offer personal development and enrichment.

General Education

General Education courses provide a fundamental learning foundation for all instructional programs offered by the college. These courses are designed to stimulate the student's intellectual curiosity, to introduce the student to the major broad domains of higher education, and to develop the student's awareness of societal concerns and the responsibilities of citizenship. All programs leading to the Associate Degree include a general education component.

Occupational Programs

Crafton Hills College offers a variety of occupational programs. Some of these programs lead to associate degrees; others lead to certificates of achievement; and some offer a choice of degree or certificate, depending on the level of education attained. For listings and descriptions of specific programs, see Section II; Section III, Associate Degree Programs; Section IV, Transfer Programs.

Transfer Programs

You can take a program of lower division studies at Crafton Hills College that will qualify you for junior standing at most four-year colleges and universities in the United States. However, since the specific requirements of different institutions vary so widely you should become familiar with the requirements of the particular program at the four-year college of your choice and plan your Crafton Hills program to meet those requirements. See Section III, *Transfer* and Associate Degree Programs, and Section IV, *Transfer Institution—General Requirements*, for more specific information.

Workforce and Economic Development

This department focuses on the College mission of economic development. Striving to enhance economic opportunities, this department responds to the needs of businesses and the community by providing a full range of services designed to improve employee performance and to foster growth. Programs include:

Workforce Development

As an alternative to the College's regular occupational programs, the Workforce Development program provides a variety of feebased classes aimed at helping people find employment. Courses are provided on a contract basis and are not academic equivalents to regular credit classes.

Workforce Development programs at Crafton Hills College provide an opportunity for individuals to develop occupational skills in preparation for employment or to improve or upgrade job skills to enhance performance in current employment. Specific class offerings are not included in the college catalog, but a list of offerings is available each semester under the Workforce Development section of the schedule of classes. Information on how to register and the fee for each class is also included in the College schedule of classes.

Customized Education and Training

Local business, industry, and government agencies can receive a cost effective, flexible, and high quality educational service. Customized training provides employers flexibility in developing employee skills. The process includes assessment, developing solutions, implementing programs/training, and follow-up and evaluation.

Economic Development

The three main goals include:

- 1. To coordinate a community college response to meet workforce needs that attracts, retains, and expands businesses.
- 2. To develop strategic public and private sector partnerships.
- 3. To identify, acquire, and leverage resources to support local economic development.

Information on any of the above programs can be obtained in the Workforce and Economic Development Office, or by calling (909) 389-3208.

Parking Controls and Traffic Regulations

(All regulations apply to San Bernardino Valley College and Crafton Hills College)

The Board of Trustees of San Bernardino Community College District, in accordance with the laws of the State of California, has established the following regulations regarding traffic and parking controls for the San Bernardino Community College District Campuses.

1. General

- A. College motor vehicle regulations apply to all faculty, staff, students, and visitors operating or parking a vehicle on either campus.
- B. Persons violating these regulations or the California Vehicle Code may receive a San Bernardino Community College District citation and/or be subject to College district disciplinary action.
- C. Parking of motor vehicles and bicycles on San Bernardino Valley College or Crafton Hills College property is done at the owner's risk. The San Bernardino Community College District assumes no liability for damage or theft of a vehicle or its contents.
- D. Crafton Hills College is situated on a hillside. Please take appropriate precautions when parking your vehicle on an incline. When headed downhill, turn your front wheels into the curb. When headed uphill turn your front wheels away from the curb. *Always set your parking brake.*

2. Traffic Regulations

- A. Persons operating vehicles and parking on San Bernardino Community College District property are required to comply with these regulations and the California Vehicle Code.
- B. The speed limit on all <u>campus roads</u> is <u>15 miles</u> per hour at San Bernardino Valley College and <u>25 miles</u> per hour at Crafton Hills College or less when road or safety conditions require lower speeds.
- C. The speed limit on <u>all campus parking lots</u> is <u>5 miles</u> per hour.
- D. No vehicles are permitted on inner campus walks except for vehicles delivering supplies and vehicles belonging to campus while in performance of maintenance, deliveries, etc.
- E. Roadblocks, barriers, or stanchions may be placed at any point deemed necessary for safety or convenience. Removal of these roadblocks, barriers, or stanchions is prohibited.
- F. Pedestrians have the right of way at all times.
- G. The use of skateboards or roller skates is prohibited on the campus.
- H. Mopeds, when on campus walkways, shall be pedaled only. Use of power is strictly forbidden beyond parking lots and campus roadways.

3. Parking Regulations:

- A. Staff and faculty lots are reserved for the sole use of personnel employed by the San Bernardino Community College District. DEPENDENTS OF EMPLOYEES ARE PROHIBITED from using staff and faculty parking lots.
- B. Parking stalls marked "VISITORS" ARE SOLELY FOR VISITORS. Students, staff, and faculty are prohibited from parking in these areas.
- C. Parking is prohibited in loading zones, posted areas along curbing, and/or red lined areas.
- D. Vehicles are to be parked in properly marked stalls only. Backing into or taking up more than one parking stall is prohibited.
- E. Physically handicapped students may be given special parking privileges, which will be evidenced by a San Bernardino Community College District handicapped permit affixed to a valid parking decal.
- F. Motorbikes, motorcycles, and other two-wheeled motorized vehicles must be parked in areas designed for this type of vehicle.
- G. Vehicles parking in prohibited areas that block the flow of traffic, fire-fighting/emergency equipment, driveways, roadways or in posted "No Parking" zones will be towed away at the owner's expense and at no responsibility to the college district. (CVC 22702)
- H. Vehicles abandoned on college property for over 72 hours without prior college authorization may be removed at owner's expense. (CVC 22702)

4. Parking Permits

- A. Faculty and staff are required to have a current permanent parking permit (decal) or current parking ticket to park in staff lots. All persons using non-staff parking lots are required to have a current permit or a current parking ticket. Staff may purchase additional decals for their use.
- B. Permits must be properly displayed while on campus.
- C. The following charges will be made for all permits:

Annual permits	\$35.00
Semester	\$20.00
Summer	\$15.00
Add'l staff decals	\$ 3.00
Daily parking	\$ 1.00

Daily parking will be verified by a current San Bernardino Community College District parking ticket placed on the dashboard of the car. Additional non-staff and non-faculty permits will be charged at the same rate as the first permit.

- D. Permits for staff and faculty will be purchased in the Police Communications Office.
- E. Permits for students will be purchased in the College Police Office at SBVC and in the Police Communications Office at CHC.
- F. If a vehicle to which a current permit is affixed is sold or disposed of, the permit number must be reported to the College Police Office and the permit removed from the vehicle.
- G. Refunds will be made only to students and only when the following conditions are met:
- 1. That all classes in which the student is enrolled are cancelled by the college and the student is thus disenrolled from the college.
- 2. That a portion of the decal bearing the number is returned to the College Police Office and
- 3. That the refund is requested within two calendar weeks from the date of the cancellation of the class(es).

Policies and Regulations

Any community that runs smoothly establishes and enforces policies and regulations to guide the behavior of its members. The College has decided the rules detailed below will enhance the opportunity of pursuing an educational program satisfactory to all or most faculty and students.

OPEN CLASSES

If you have been officially admitted to Crafton Hills College, you are eligible to enroll in any class for which you meet either the prerequisites or corequisites or both. Of course, only so many persons can fit into classrooms and laboratories, so class sizes are limited and enrollment is generally on a first come, first served basis.

CANCELLING CLASSES

The college reserves the right to cancel any class that does not meet the minimum size requirements established by the district. Students will automatically be mailed a refund of the enrollment fees for any class cancelled by the college.

NONDISCRIMINATION

Crafton Hills College is committed to the achievement of equal educational opportunity. Decisions relating to your admission to the College, to student financing and student employment, or to participation in any College function will not be influenced by your race, religion, sex, age, disability, sexual orientation or national origin. If you believe that you have been the object of illegal discrimination, you may file a complaint for the purpose of correcting the improper treatment that you allege. The designated coordinator at Crafton Hills College for compliance with Section 504 of the Rehabilitation Act of 1973 for the Handicapped, as amended, and for compliance with Title IX, prohibiting sex discrimination in schools and colleges, is the Vice President of Student Services, in Room SSA-306, ext. 3354. Refer to Student Grievance Procedures.

CREDIT FOR MILITARY EXPERIENCE

If you have served on active duty with the Armed Forces for at least one year, you are eligible to receive up to seven units of Credit (CR) grades. Additional credit for military schools and college-level examinations may be earned in accordance with the recommendations of the American Council on Education. Inquire at the Counseling Center for full details.

UNITS OF CREDIT

Academic work at Crafton Hills College is measured in units of credit. In general, to earn one unit of credit, you attend a lecture class that meets one hour a week; a laboratory class that meets two or three hours a week; or clinic, field, or work experience for five hours a week.

An exception to this rule is credit by examination. You earn credit by examination by demonstrating in a test situation a mastery of a particular subject area.

UNIT LIMITATIONS

To be considered a full-time student, you must carry a minimum of twelve (12) units.

If you are a regular full-time student, you are restricted to a maximum of eighteen (18) units each semester.

If you attend evenings only, you are restricted to nine (9) units each semester.

During the summer session, you are restricted to one (1) unit for each week of instruction. For example, in the six-week session, you may carry up to six units.

If you wish an overload, that is, units in excess of the maximum, you must receive approval from a College counselor prior to registering for classes. Contact the Counseling Center for exceptions to this policy.

STUDENT CLASSIFICATION

You are classified according to the number of units successfully completed. If you have completed fewer than thirty units, you are considered a freshman; thirty or more, a sophomore. If you have completed more than sixty units, you are classified as a special student.

CREDIT/NO CREDIT

If you wish to be graded in any class on a Credit/No Credit basis, you must so indicate by the end of the 5th week, or in the case of summer session or short-term course(s), no later than the end of the first 30% of the term. If you have received a "CR" grade for a course, you may, upon showing adequate justification and need for a change, have the "CR" grade changed to a letter grade by the instructor of record. If the instructor of record is no longer available, the change of grade may be made by the appropriate administrator.

You may take up to fifteen (15) units of Credit ("CR") courses to apply toward graduation requirements.

No course in your major or required by your major may be taken for Credit ("CR"); that is, subjects in your major must be taken for a letter grade. However, if you have completed courses for Credit ("CR") and subsequently declared a major in that course of study, the rule may be waived.

A student must earn a grade of "C" or higher to be granted credit (CR) for a course.

Units from Credit/No Credit courses will apply toward graduation, but are not included in the grade point average.

INCOMPLETES

An incomplete or "I" symbol will be awarded to the student who, in the judgment of the instructor, is unable to complete a course due to a verified emergency. The instructor must complete an Incomplete form available from the Admissions and Records Office. The form should include the instructor's statement of what the student must do to complete the course and what grade the student will receive if the required work is not completed within one year from the end of the semester in which the "I" is assigned. The Admissions and Records Office will notify the student of the "I" and keep a copy of the form on file. The student cannot register into the same course until the "I" has been removed by the instructor.

WITHDRAWAL FROM CLASSES OR FROM THE COLLEGE

If you withdraw prior to the end of the 4th week (or 30% of a term, whichever is sooner), no entry will be made on your record.

If you withdraw or are dropped from a course before the end of the 14th week of a semester or before 75% of a summer session or short-term class has been completed, you will receive no evaluative grade. The letter "W" will be recorded on your transcript, indicating "Withdrawal."

This symbol carries no evaluation of your work, but is a clerical notation that you were enrolled in the course and withdrew or dropped without grade or unit credit. However, "Ws" are used in the probation and dismissal procedures.

After the 14th week: If you continue any course for which you are enrolled after the 14th week of the semester or after 75% of a summer session or short-term class has been completed, you will receive a grade in the class from your instructor, other than a "W," according to the grading system of the college.

CREDIT BY EXAMINATION

Currently enrolled students who feel that their knowledge is equivalent to the course content of a currently approved course may apply for credit by examination. To do so, the following conditions must exist:

- The student must submit evidence of extensive background and/or experience in the subject area to the instructor of the course.
- The student must have completed twelve (12) or more units at Crafton Hills College or be a permanent employee of the San Bernardino Community College District.
- The student must be enrolled in the college during the semester in which the examination is taken.
- The student must have the approval of a full-time instructor in the discipline.
- Credit by examination for foreign language courses will be granted only to students who take the next higher language course at CHC, and only with the approval of the appropriate foreign language instructor.

To apply, the student must submit a fully completed and signed application for Credit by Examination for each course requested to the CHC Office of Instruction. Applications may be obtained in the Admissions and Records Office (Room SSA-213).

In addition to paying the enrollment fee based on the number of units in the course that is being challenged, there is an additional processing fee of \$20 that is applied to all credit-by-examination applications (SBCCD Board Policy 7180).

CONCURRENT ENROLLMENT

If you are a Crafton Hills College student, you may take courses at San Bernardino Valley College during the same semester.

EXAMINATIONS

Students must take all examinations given in the courses in which they are enrolled, and may not be excused from the required examinations of any course, including final examinations. Students who are absent during an examination forfeit the right to make up the examination unless they have prior permission from the instructor.

CLASS ATTENDANCE

It is the student's responsibility to attend classes regularly and on time. **Students who do not attend the first class session may be dropped from the class at the discretion of the instructor.** If you must miss a particular class, you should notify the instructor as soon as possible, but in no case later than the first day you return to school. An instructor may drop you from a course for excessive absences. Reinstatement is the prerogative of the instructor.

OPEN ENTRY/OPEN EXIT COURSES

Students completing less than 75% of the work or time required in an open entry/open exit course will be given a grade of "W," which will be included in completion-ratio calculations. Students completing 75% or more of the work or time required will be assigned the grade earned, i.e., "A", "B", "C", "D", "F", "CR" or "NC."

GRADE CHANGES

Individual course instructors are responsible for assigning grades. All grades are final. As per SBCCD Board Policy 5040, grades will not be changed for any reason or under any circumstance after 36 months from the end of the term in which the grade was assigned.

GRADING SYSTEM

The evaluative and non-evaluative grading symbols and their meanings are as follows:

Evaluative Symbols	Definition	Grade Points
А	Excellent	4
В	Good	3
С	Satisfactory	2
D	Passing, less than satisfactory	1
F	Failing	0
CR	Credit (at least a "C")	0
NC	No Credit (less than satisfactory)	0

Non-Evalua Symbols	tive Definition	Comments
Ι	Incomplete	Instructor initiated.
W	Withdrawal	Student or instructor initiated.
IP	In Progress	Assigned for classes which continue across semester and/or intersessions dates.
RD	Report Delayed	Assigned by the Registrar's Office when grades are not recorded but term is completed.

STANDARDS FOR PROBATION

A student shall be placed on either Academic Probation or Progress Probation according to the following rules:

- 1. Academic Probation: The student's cumulative grade point average in twelve or more units falls below 2.0 in all units attempted which were graded on the basis of the college grading scale.
- Progress Probation : The student has enrolled in at least twelve units and has received non-evaluative symbols of W, I and NC in 50% or more of the units for which he/she was enrolled.
- 3. The student has been disqualified from another collegiate institution.

REMOVAL FROM PROBATIONARY STATUS

- 1. A student on probation may appeal this status by filing a request for special consideration with the Student Services Petitions Committee. (Petitions are available in the Admissions and Records office.)
- 2. A student shall remain on academic probation until he/she earns a cumulative grade point average of 2.0 or higher.
- 3. A student shall remain on progress probation until he/she receives less than 50% of **NC**'s, **I**'s and **W**'s in all units in which he/she has been enrolled.

COUNSELING REQUIREMENTS

When a student earns a grade point average of less than 2.00 while on either academic or progress probation, he/she will not be allowed to register until after having met with a counselor for class scheduling approval.

STANDARDS FOR DISMISSAL

For the purposes of this section, semesters shall be considered consecutive on the basis of the student's enrollment (e.g., the fall semester of 2001-2002 followed by the fall semester 2002-2003 shall be considered consecutive if the student was not enrolled in the spring semester of 2001-2002.)

A student on academic and/or progress probation shall be dismissed for one semester when one or more of the following conditions exists:

- 1. The student has earned a cumulative grade point average of less than 2.0 in all units attempted, based on the grading scale, in each of three consecutive semesters;
- 2. The student has received non-evaluative symbols of **W**, **I**, or **NC** in 50% or more of the units for which he/she was enrolled in each of three consecutive semesters; or
- 3. The student receives a combination of the evaluative and/or non-evaluative patterns listed in 1 and 2 in each of three consecutive semesters.

RE-ADMISSION

- 1. A disqualified student may appeal his/her dismissal by filing a Petition for Special Privilege with the Student Services Petitions Committee.
- 2. A student may be reinstated after one semester from the date of disqualification.
- 3. A student enrolled following dismissal shall be on probationary status and subject to dismissal.
- 4. If the scholastic achievement of a student readmitted after disqualification continues at a probationary level, the student may be disqualified for one year.

REPEATING COURSES

Courses in which a substandard grade of D, F, NC was issued may be repeated one time. Only the units and the grade for the course taken the second time will be used to compute the student's GPA and to count for degree or certificate requirements.

Courses in which an "Incomplete" (I) has been recorded may not be considered for repetition until such time as an evaluative symbol (letter grade) has been issued.

Courses in which a standard grade of C, B, A, CR was issued may be repeated one time only upon petition establishing circumstances that will justify such repetition. Grades issued for repeating a course under this petition process **will not be counted** in the computation of the GPA.

Grades, once entered on a student's academic record, remain permanent unless changed by the instructor of record or pursuant to Education Code Section 76224. No grade will be changed after 36 months.

Student permanent records shall reflect all work attempted so that the student's transcript is a true and complete academic record pursuant to Administrative Code, Title 5, Section 55761. Prior course repetition actions by other accredited colleges may be honored when a student's permanent record is reviewed for degree or certificate requirements.

ACADEMIC RENEWAL WITHOUT COURSE REPETITION

Students of Crafton Hills College may alleviate certain previous substandard academic and skills training performance which is not reflective of present demonstrated abilities in accordance with the following educational principles and procedures. Academic renewal without course repetition may be accomplished by submission of a petition to the appropriate campus committee. A student may petition to have any substandard grades for courses taken during two consecutive semesters of attendance at any accredited college eliminated from the computation of the total grade point average, not to exceed a total of thirty (30) units.

Students submitting such petitions must have been enrolled and must have completed 24 units of college work at any accredited college with a grade point average of 2.5 or better subsequent to the semester being petitioned. The semester(s) under consideration must have been completed at least two semesters prior to the time of submitting the petition. Neither grades nor courses will be "taken off" the student's record. Instead, courses under consideration will be indicated and annotated accordingly on the student's permanent record. The student's permanent records from other institutions will not be altered. The student may not request for Academic Renewal more than once.

Petition for Special Privileges Procedure

Students may obtain further information and/or forms regarding the appeals process from the Counseling Center, SSB 201 or the Student Services Office, SSA 306.

The completed petition must include:

- 1. The reason for the petition
- 2. A concise statement that may justify the granting of the petition
- 3. Any documentation that may support the granting of the petition

STANDARDS OF STUDENT CONDUCT

In the Classroom

A proper teaching and learning environment is imperative for getting a good education. Everyone at Crafton Hills College is responsible for helping to create this environment, including students. Simple rules of courtesy apply.

- 1. **Respect for the Instructor.** This includes arriving on time, not leaving early, bringing appropriate materials, not speaking with other students while the instructor or another student is talking, not bringing food or drink into the classroom, and not being loud, boisterous, or argumentative.
- 2. **Respect for Other Students.** This includes not interfering with the rights of others to listen and participate, being respectful, and not using inappropriate language or harassing others in any way.
- 3. Academic Honesty. Lack of honesty in the classroom is considered a very serious offense. Any form of cheating on tests or assignments, turning in work which is not one's own (i.e., plagiarism), talking during tests, furnishing false information to college personnel, or knowingly misrepresenting oneself to the college are grounds for disciplinary action. The consequences of cheating are severe and may include receiving a grade of "F" for the class and/or possible expulsion from the college.

- 4. **Instructor's Rights.** An instructor has the right to remove a student from class at any time he or she considers a student's actions to be interfering with a proper collegiate environment. The instructor may also refer the incident to the Vice President of Student Services for disciplinary action as warranted.
- 5. **Student's Rights.** All students have a right to due process. If a classroom conflict occurs, the student must first discuss the problem with the instructor. If this does not resolve the problem, the student should follow the procedures detailed in SBCCD Board Policy 6090, *Student Grievances*.

On the Campus

Creating a proper campus environment is also very important for academic and individual success. The SBCCD Board of Trustees has established district-wide standards of student conduct which will be enforced at all times. These rules of conduct are particularly important in large common areas such as the cafeteria, bookstore, vending areas, campus quads, and other regularly frequented areas.

STUDENT GRIEVANCE PROCEDURE

If you feel you have been treated unfairly, you have a right to complain. To ensure that your grievance receives a reasonable hearing, the College has established certain procedures. Consult with the Student Services Office, Room SSA 306, for details.

• Family Educational Rights & Privacy Act

Federal and state law does not permit access to or release of any information contained in student educational records to any unauthorized party or agency without proper court orders or written consent of the student. Crafton Hills College maintains a student record for everyone admitted; it contains the request for admission, transcripts of college work attempted, semester class enrollment data, placement test data, requests for financial aid while attending college, student health information, and VA authorization benefit forms. The College does not maintain a public directory.

Crafton Hills College students have the right to review their educational records.

Students may challenge the content of records by filing the proper petition.

LAWS TO HELP STUDENTS:

• Title IX

Congress passed Title IX of the Educational Amendment in 1972. Sex discrimination is prohibited in federally assisted, education programs. Title IX states:

No person in the United States shall, on the basis of sex, be excluded from participations in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance.

• Title II

Title II of the Education Amendments of 1976 is Federal Legislation regarding Vocational Education. One of the purposes is to help all students receive the job training needed to become financially secure. Part of the law is: *To develop and carry out programs of Vocational Education within each state so as to overcome sex discrimination and sex stereotyping in Vocational Education programs and thereby furnish equal educational opportunities in Vocational Education to persons of both sexes.*

CONTINUOUS ATTENDANCE AND GRADUATION

Students in continuous attendance at Crafton Hills College or students who have a break in attendance of less than five years may choose to meet either the graduation requirements in effect at the time they first attended the College or those in effect at the time they graduate.

READMISSION AND GRADUATION

Students who have had a break in attendance at Crafton Hills College of more than five years may choose to meet either the graduation requirements in effect at the time of their readmission or those in effect at the time they graduate.

TRANSFER STUDENTS AND GRADUATION

Students who transfer to Crafton Hills College from other colleges and universities may choose to meet either the graduation requirements in effect at the time of their transfer or those in effect at the time they graduate.

ALUMNI ASSOCIATION

We warmly invite you to join other alumni and friends of the college in carrying on the tradition and school spirit of Crafton Hills College by becoming a member of the Crafton Hills College Alumni Association. Half of the money raised from annual dues, which are tax deductible, will be placed into a scholarship fund for Crafton Hills College students, with the remaining half being used for operational costs. For more information, contact Student Services at 389-3355.

Prerequisites, Corequisites, and Departmental Recommendations

When registering for classes, students are required to adhere to enrollment policies that relate to prerequisites, corequisites, and departmental recommendations.

1. A *prerequisite* means a condition of enrollment student is required to meet in order to demonstrate readiness for enrollment in a course or educational program. Students registered in a class without having completed the prerequisite(s) may be dropped from the class. Prerequisite courses completed with a grade of D or F indicate unsatisfactory performance in the course and do not satisfy the prerequisite.

- 2. A *corequisite* means a condition of enrollment consisting of a course a student is required to take simultaneously in order to enroll in another course.
- 3. A *prerequisite/corequisite* means a condition of enrollment consisting of a course a student must either have taken previously or be taking simultaneously in order to enroll in another course.
- 4. A *departmental recommendation* means a condition of enrollment a student is advised, but not required, to meet before or in conjunction with enrollment in a course or education program.

PREREQUISITE/COREQUISITE CHALLENGE PROCESS

Any prerequisite or corequisite may be challenged by a student on one or more of the grounds listed below. The student shall bear the initial burden of showing grounds exist for the challenge. Challenges shall be resolved in a timely manner and, if the challenge is upheld, the student shall be permitted to enroll in the course in question. Grounds for challenge are:

- 1. The prerequisite or corequisite has not been established in accordance with the District's process for establishing pre-requisites and corequisites;
- 2. The prerequisite or corequisite is in violation of Title 5 of the Education Code;
- 3. The prerequisite or corequisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner;
- 4. The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite;
- 5. The student will be subject to undue delay in attaining the goal of his or her Student Educational Plan because the pre-requisite or corequisite course has not been made reasonably available;
- 6. The student seeks to enroll and has not been allowed to enroll due to a limitation on enrollment established for a course that involves intercollegiate competition or public performance, or enrollment in one or more of the courses has been limited to a cohort of students. The student shall be allowed to enroll in such a course if otherwise he or she would be delayed by a semester or more in attaining the degree or certificate specified in his or her Student Educational Plan; and
- 7. The student seeks to enroll in a course which has a prerequisite established to protect students' health and safety, and the student demonstrates that he or she does not pose a threat to himself or herself or others.

ADVANCED PLACEMENT POLICY

Crafton Hills College is a participant in the Advanced Placement Program of the College Entrance Examination Board. Advanced Placement credit will be granted by Crafton Hills College according to the following policy:

- 1. Students must be enrolled at Crafton Hills College in order to apply for AP credit.
- 2. Students are required to have completed twelve (12) units at Crafton Hills College prior to applying for AP credit. An exception will be made to this requirement if an AP course serves as a pre-requisite for a more advanced course. See a counselor for details.
- Students will be granted credit for AP scores of three (3), four (4), or five (5) in specific subject areas. Bring a copy of the AP score report to the Counseling office for evaluation. Students will receive units of credit and grades of Credit (CR) on their Crafton Hills College transcripts.
- 4. Units earned by AP examinations may be used to meet Certificate and Associate Degree requirements.
- 5. Units earned by AP examinations may be used towards CSU General Education Breadth certification according to the CSU approved list.
- 6. Units earned by AP examinations may be used to meet Intersegmental General Education Transfer Curriculum (IGETC), with the exception of critical thinking-English composition and oral communication requirements (Areas 1B and 1C). Credits earned with a score of 3 or higher on a designated AP examination may be applied when recognized by the college as equivalent to approved IGETC courses. Each individual AP examination can clear <u>one</u> course only.
- 7. Units of AP credit may not be used to satisfy financial aid, veterans or EOPS eligibility criteria regarding enrollment status.
- 8. Units of AP credit may not be used to satisfy the College's twelve (12) unit residency requirement, or be added to a student's earned unit total for priority registration purposes.

NOTE:

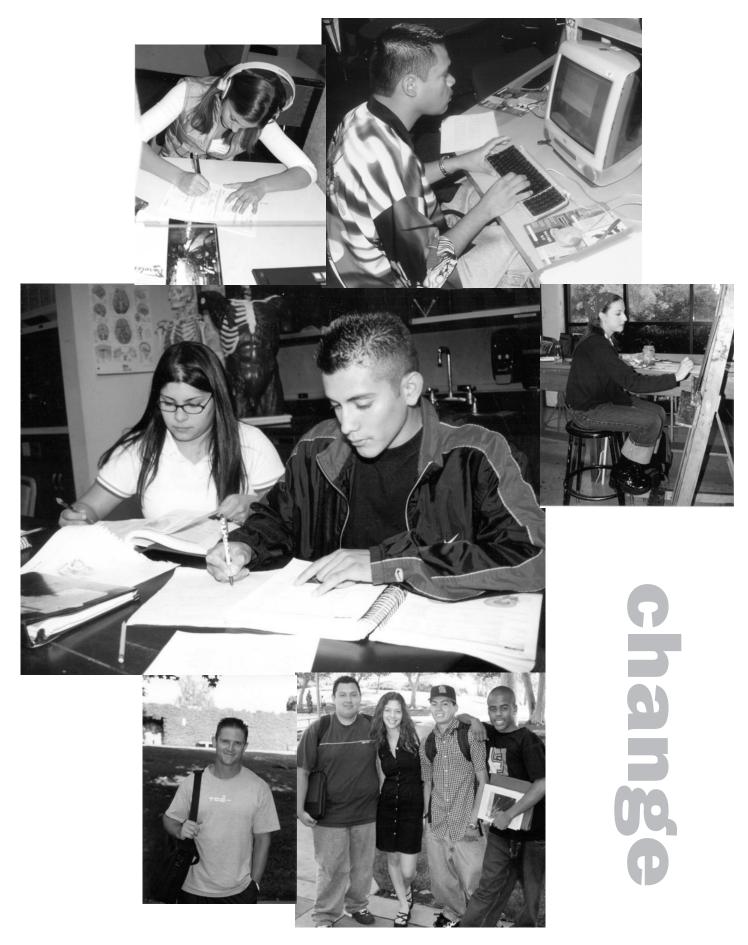
1. Some four-year institutions (e.g., out of state) may not accept AP credit.

The applicability and quantity of AP credits granted toward major/or baccalaureate degree requirements continues to be determined by the individual CSU or UC campus. Students planning to transfer should check the catalog of the transfer institution to determine how AP credit is awarded at that school.

ADVANCED PLACEMENT (AP) EXAMINATION CREDITS

Advanced Placement Exam with Score of 3, 4, or 5	CHC Units Awarded	CHC Course Equivalent	CHC General Education Graduation Credit	CSU General Education Credit	IGETC Credit
Art History	3	ART 100 or ART 102	Area D1	Area C1	Area 3/Arts
Biology	4	BIOL 100	Area C	Area B2	Area 5 (no lab credit)
Chemistry	4	CHEM 101	Area C	Area B1	Area 5 (no lab credit)
Economics: Macro	3	ECON 200	Area D	Area D2	Area 4
Economics: Micro	3	ECON 201	Area D	Area D2	Area 4
English: Language and Composition	4	ENGL 101	Area A or Area F	Area A2	Area 1, Group A
English: Literature and Composition	4	ENGL 101	Area A or F	Area A2	Area 1, Group A
French Language	5	FRENCH 102	Area D1	Area C2	UC Language requirement
Government and Politics: US	3	POLIT 100	Area E	Area D8	Area 4
History: European	3	HIST 160 or HIST 161	Area D1 or Area E	Area C2 or Area D6	Area 3/ Humanities or Area 4
History: United States	3	HIST 100 or HIST 101	Area D1 or Area E	Area D6	Area 3/ Humanities or Area 4
Mathematics: Calculus AB	4	MATH 250	Area F	Area B4	Area 2
Mathematics: Calculus BC	4	MATH 251	Area F	Area B4	Area 2
Physics B	4	PHYSIC 110	Area C	Area B1	Area 5 (no lab credit)
Physics C (Mechanics)	6	PHYSIC 200	Area C	Area B1	Area 5 (no lab credit)
Physics C (Electricity and Magnetism)	(no credit allowed)				
Psychology	3	PSYCH 100	Area E	Area D9	Area 4
Spanish Language	5	SPAN 102	Area D1	Area C2	UC Language requirement
Statistics	4	MATH 108	Area F	Area B4	Area 2

ACADEMIC PROGRAM	DEGREE	CERTIFICATE	PAGE
ACCOUNTING	AA	Х	28
ADMINISTRATION OF JUSTICE	AA		30
Administration of Justice Certificate		Х	
ANTHROPOLOGY	AA		33
ART	AA		34
ASTRONOMY	AS		35
BIOLOGY	AS		36
BUSINESS ADMINISTRATION	AA		37
Business Management Certificate		Х	37
Retail Management Certificate		Х	37
CHEMISTRY	AS		39
CHILD DEVELOPMENT	AA		40
Child Home Day Care Provider Certificate		Х	40
Associate Teacher Certificate		X	40
Teacher Certificate		X	41
Master Teacher Certificate		X	41
Site Supervisor Certificate			41
COMPUTER INFORMATION SYSTEMS	AS	Λ	42
	Að	v	
Cisco Certified Network Associate Certificate Cisco Certified Network Professional Certificate		X X	46 46
			46
Computer Hardware Technician Certificate		X	46
Computer Information Systems Certificate		X	46
Network Technician Certificate		X	46
Programming Certificate		X	47
Webmaster Certificate		Х	47
ECONOMICS	AA		52
EMERGENCY MEDICAL SERVICES	AS		53
Emergency Medical Technician-1 Certificate		Х	53
Emergency Medical Technician-Paramedic Certificate		Х	53
Mobile Intensive Care Nurse Certificate		Х	54
ENGLISH	АА		58
FIRE TECHNOLOGY	AS		61
California Fire Officer Training Certificate		Х	62
Fire Inspection Academy Certificate		X	62
Firefighter Basic Training Academy Certificate		X	62
GEOGRAPHY	AS		67
GEOLOGY	AS		68
HISTORY	AA		70
LIBERAL STUDIES	AA		112
MARKETING	AA		74 74
Marketing Management Certificate		X	74
MATHEMATICS	AS		75
MICROBIOLOGY	AS		78
MUSIC	AA		81
PHILOSOPHY	AA		81
PHYSICS	AS		84
POLITICAL SCIENCE	AA		84
PSYCHOLOGY	AA		85
RADIOLOGIC STUDIES	AS		87
Radiologic Technology Certificate		Х	87
RELIGIOUS STUDIES	AA		92
RESPIRATORY THERAPIST	AS		93
Certified Respiratory Therapist (CRT) Certificate	A5	Х	93 94
Registered Respiratory Therapist (RRT) Certificate			94 94
SOCIOLOGY		Λ	99
	AA	+	
SPEECH	AA	+	100
SPEECH SPEECH-LANGUAGE PATHOLOGY ASSISTANT	AA AS	+	101 102
		+	
THEATRE ARTS	AA		104



SECTION II Course Descriptions

Accounting	ACCT
Administration of Justice	ADJUS
Allied Health Services	AH
American Sign Language	ASL
Anatomy	ANAT
Anthropology	ANTHRO
Art	
Astronomy	ASTRON
Biology	BIOL
Business Administration	BUSAD
Chemistry	
Child Development	CD
Computer Information Systems	
Economics	ECON
Education	
Emergency Medical Services	EMS
English	ENGL
Fire Technology	FIRET
French	FRENCH
Geography	GEOG
Geology	GEOL
Health Education	
History	HIST
Human Services	
Interdisciplinary Studies	INTDIS
Learning Resources	

37.1.1 St.	DUDT
Marketing MA	
Mathematics	
Microbiology M	
Music M	MUSIC
Oceanography O	CEAN
Personal Career Development	
Philosophy	- PHIL
Physical Education - Personal Activities	PE
Physical Education/Individual and Group Activities	PE/I
Physical Education/Team	- PE/T
Physics Pl	HYSIC
Physiology Pl	HYSIO
Political Science	POLIT
Psychology F	SYCH
Radiologic Technology RA	ADIOL
Reading and Study Skills	READ
Real Estate RI	
Religious Studies	RELIG
Respiratory Care	RESP
Rotocraft-Helicopter Pilot Training	ROTO
Sociology	SOC
Spanish	SPAN
Speech SH	
Speech-Language Pathology Assistant	
Theatre Arts T	HART
Work Experience W	

Numbering of Courses

010-099	Multipurpose courses, but not generally applicable to the Baccalaureate degree.
100-299	Basic lower division courses applicable to the Associate degree; may also apply to the Baccalaureate degree.
900-999	Courses not applicable to the Associate degree.

COURSE TRANSFERABILITY

Many courses numbered 100 through 299 are acceptable for transfer to the California State University and the University of California. Courses that are transferable to these universities will have CSU and/or UC printed directly beneath the title of the course. If CSU or UC is followed by an asterisk(*), there may be a limitation on the credit allowed. Please check with a counselor for specific details. Courses that apply to the Associate degree are indicated under the course title.

CALIFORNIA ARTICULATION NUMBER (CAN)

The California Articulation Number (CAN) System identifies many transferable, lower division, preparation courses commonly taught on California college and university campuses.

The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus. For example: CAN ECON 2 on one campus will be accepted for CAN ECON 2 on every other participating campus. Each campus retains its own numbering system but adds the CAN designation parenthetically in its publications.

Check with counseling offices, departmental offices, or articulation officers for current listings of CAN courses and campuses participating in the CAN System. A CAN CATALOG listing campuses and courses is published biannually.

ACCOUNTING (ACCT)

Department:	Business
Dean:	Donna Ferracone, M.A.
Liaison Counselor:	John Gist, M.S.

ASSOCIATE OF ARTS DEGREE ACCOUNTING

REQUIRE	UNITS	
ACCT 210	Principles of Accounting	3
ACCT 211	Principles of Accounting	1
	Computer Laboratory	
ACCT 220	Principles of Accounting	3
ACCT 221	Principles of Accounting	1
	Computer Laboratory	
ACCT 225	Intermediate Accounting	3
ACCT 226	Cost Accounting	4
BUSAD 10	00 Introduction to Business	3
	TOTALUNITS	18

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

ACCOUNTING CERTIFICATE

The objective of this certificate is to provide entry-level, marketable employment skills to equip the student with a basic understanding of the terminology and basic concepts/procedures used in the accounting field, and to acquaint the student with the various sub-functions within the overall career field of accounting. Completion of the certificate program will prepare the student for entry-level employment in a variety of related occupations including payroll clerk, accounts receivable or payable clerk, and beginning general bookkeeper clerk.

Admission: Open to all students. Registration is limited to class size restrictions.

Certificate requirements include the completion of 5 core courses (no more than 1 course from each group) and the completion of 6 specialty courses.

	CORE COURSES	
1. ACCT 205	Bookkeeping	3.0
2. MARKET 100	Marketing Principles	3.0
3. BUSAD 100	Introduction to Business	3.0
4. ECON 200	Principles of Macroeconomics O R	(3.0)
ECON 201	Principles of Microeconomics	(3.0)
5. BUSAD 210	Business Law	3.0
6. BUSAD 053	Business Computations O R	(3.0)
MATH 108	Statistics	(4.0)
7. Computer Lang	uage Course	3.0
8. BUSAD 230	Using Computers for Business	3.0
r	DEGUIDED SDECIALTY COLU	

REQUIRED SPECIALTY COURSES				
ACCT 210	Principles of Accounting	3.0		
ACCT 211	Principles of Accounting	1.0		
	Computer Laboratory			
ACCT 220	Principles of Accounting	3.0		
ACCT 221	Principles of Accounting	1.0		
	Computer Laboratory			
ACCT 225	Intermediate Accounting	3.0		
ACCT 226	Cost Accounting	(4.0)		
	OR			
ACCT 230A	State and Federal Income	(4.0)		
	Tax Accounting			
	TOTAL	30.0		

Contact the Admission's Office to apply for a certificate. If you wish to participate in the Graduation Ceremony, contact the Program Development Office at 389-3344 by March 1, 2004.

198 ACCOUNTING WORK EXPERIENCE 2 - 4 UNITS

CSU*, Associate Degree Applicable

Prerequisite: Enrolled in Accounting occupational program and working at a job directly related to student's major

Corequisite: Enrolled in at least 7 units, including this Work Experience course

Work Experience: 150-300 hours Paid Employment 120-240 hours Unpaid Employment

Integration of classroom instruction with practical on-the-job experience coordinated with the program of study and related to appropriate occupational goals.

205 BOOKKEEPING

3 UNITS

CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942

Lecture: Minimum 48 hours per semester

Fundamentals of bookkeeping, such as recording of transactions in journals, posting to ledgers, preparation of the trial balance, and use of the controlling accounts and related schedules with practice in opening, adjusting, and closing various professional sets of books. (Recommended for occupational students, and for those who wish preparatory training before entering ACCT 210.)

210 PRINCIPLES OF ACCOUNTING

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942

Corequisite: ACCT 211

Lecture: Minimum 48 hours per semester

Development of the basic principles and practices applicable to the general accounting process; application of these principles to the accounting cycle, statement preparation, and the problems of merchandise, depreciation, accounts receivable and payable as well as accruals and deferrals. Also includes coverage of the relationship of accounting to the economic environment and accounting information systems. Emphasis will be on case learning reflecting a user's perspective and on developing team learning and decision-making skills. (CAN BUS 2)

211 PRINCIPLES OF ACCOUNTING COMPUTER 1 UNIT LABORATORY

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942

Corequisite: ACCT 210

Laboratory: Minimum 48 hours per semester

Instructing students in the interpretation and use of computerized accounting practice case.

220 PRINCIPLES OF ACCOUNTING

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: ACCT 210, ACCT 211

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942

Corequisite: ACCT 221

Lecture: Minimum 48 hours per semester

Development of the basic principles and practices applicable to the general accounting processes; application of these concepts in the fields of cost, income tax, stockholder's equity, funds statements and financial statement analysis including the statement of cash flows. In addition, coverage of the conversion cycle, budgeting and the administrative cycle in accounting. Emphasis will be on case learning reflecting a user's perspective and on developing team learning and decision-making skills. (CAN BUS 4)

221 PRINCIPLES OF ACCOUNTING COMPUTER 1 UNIT LABORATORY

UC, CSU, Associate Degree Applicable

Prerequisite: ACCT 210, ACCT 211 Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942

Corequisite: ACCT 220

Laboratory: Minimum 48 hours per semester Instructing students in the interpretation and use of computerized accounting practice case.

225 INTERMEDIATE ACCOUNTING

CSU, Associate Degree Applicable

Prerequisite: None Departmental Recommendations: Reading: Pass a

standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942

Lecture: Minimum 48 hours per semester

Instruction in the study of adjustments, working papers, financial statements, cash and receivables, inventories, investments, plant assets, intangibles, liabilities, capital stock and retained earnings, statement analysis, and application of funds. Emphasis will be on case learning reflecting a user perspective and developing team learning and decision-making skills.

226 COST ACCOUNTING

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942

Lecture: Minimum 64 hours per semester

Instruction in the objectives and procedures of accounting for manufacturing enterprises; job and process costing, accounting for manufacturing overhead, joint-product and by-product costing, cost budgeting, standard costs, and cost reports. Emphasis will be on case learning reflecting a user perspective and on developing team learning and decision-making skills.

227 ADVANCED INTERMEDIATE ACCOUNTING

3 UNITS

Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942, ACCT 225

Lecture: Minimum 48 hours per semester

Instruction in the study of liabilities, contingencies, stockholders' equity, retained earnings, earnings per share, investments, revenue recognition, pensions, leases, accounting changes, error analysis, Statement of Cash Flows, and full disclosure. Emphasis will be on case learning reflecting a user perspective and developing team learning and decision-making skills.

3 UNITS

4 UNITS

3 UNITS

228 AUDITING3 UNITSAssociate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942, ACCT 225

Lecture: Minimum 48 hours per semester

Instruction in the study and application of generally accepted auditing principles. Emphasis will be on case learning reflecting a user perspective and developing team learning and decision-making skills.

229 ADVANCED AUDITING

3 UNITS

Associate Degree Applicable Prerequisite: ACCT 228

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942, ACCT 225

Lecture: Minimum 48 hours per semester

Instruction in the application of generally accepted auditing standards towards auditing computerized accounting information systems. Emphasis will be on case learning reflecting a user perspective and developing team learning and decision-making skills.

230ABCD STATE AND FEDERAL INCOME TAX ACCOUNTING 4 UNITS

CSU, Associate Degree Applicable

Prerequisite: None (Courses must be taken in sequence) Departmental Recommendations: ACCT 205 and/or ACCT 210 Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester

Introduction to state and federal income tax returns, tax principles and procedures, application, special tax problems, tax planning including implications of investments, tax shelters, tax preferences, small business endeavors, and retirement programs. The course objective is to provide a breadth and depth of tax knowledge suitable for entry level accounting jobs and transfer accounting majors.

231 GOVERNMENTAL AND NON-PROFIT ACCOUNTING 3 UNITS

Associate Degree Applicable

Prerequisite: ACCT 225 or the equivalent Departmental Recommendations: Reading: Pass a

standardized test of reading comprehension at or above the 12th Grade level, ENGL 015, MATH 942

Lecture: Minimum 48 hours per semester

Instruction in the application of accounting principles, standards, and methods to governmental and non-profit organizations.

Administration of Justice (Adjus)

Department: Social Sciences Department Head: Mario Perez, M.A.

ASSOCIATE OF ARTS DEGREE ADMINISTRATION OF JUSTICE

REQUIRED	COURSES:	UNITS
ADJUS 101	Introduction to Administration of Justice	3
ADJUS 102	Principles and Procedures of the Justice System	3
ADJUS 103	Concepts of Criminal Law	3
ADJUS 104	Legal Aspects of Evidence	3
ADJUS 105	Community Relations	3
Select six ur	nits from the following:	
ADJUS 106	Principles of Investigation	(3)
ADJUS 107	Concepts of Enforcement Services	(3)
ADJUS 108	Juvenile Procedures	(3)
PHIL 103	Introduction to Logic: Argument and Evidence	t (3)
SOC 141	Minority Relations	(3)
	TOTAL UNITS	21

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

ADMINISTRATION OF JUSTICE CERTIFICATE

Admission: Open to all students. Registration is limited to class size restrictions.

Completion of the following 37 units qualifies the student for the Administration of Justice Certificate.

REQUIRED COURSES			
ADJUS 101	Introduction to Administration of Justice	3.0	
ADJUS 102	Principles and Procedures of the Justice System	3.0	
ADJUS 103	Concepts of Criminal Law	3.0	
ADJUS 104	Legal Aspects of Evidence	3.0	
ADJUS 105	Community Relations	3.0	
SPAN 015	Conversational Spanish I	3.0	
SPEECH 100	Elements of Public Speaking	(3.0)	
	OR		
SPEECH 111	Interpersonal Communication	(3.0)	

ENGL 101	Freshman Composition	4.0
SOC 100	Introduction to Sociology	3.0
SOC 141	Minority Relations	3.0
6 Units from	the Following List:	
Any Political S	Science Course	(3.0)
ADJUS 106	Principles of Investigation	(3.0)
ADJUS 107	Concepts of Enforcement	(3.0)
	Services	
ADJUS 108	Juvenile Procedures	(3.0)
PHIL 105	Moral Values in Today's	(3.0)
	Society	
	TOTAL	37.0

101 INTRODUCTION TO ADMINISTRATION OF JUSTICE 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

The history and philosophy of the administration of justice in America, recapitulation of the criminal justice system, and identifying the various sub-systems, role expectations, and their interrelationships, theories of crime, punishment and rehabilitation, ethics, education and training for professionalism within the system.

102 PRINCIPLES AND PROCEDURES OF THE JUSTICE SYSTEM 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

A study of 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, procedures from initial entry to final disposition and the relationship each segment maintains with its system members.

103 CONCEPTS OF CRIMINAL LAW

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

This course covers the historical development and philosophy of law, constitutional provisions, definitions, classification of crime and their application to the system of Administration of Justice. It includes legal research, study of case law, constitutional law, legal methodology and the discussion of law as a social force.

104 LEGAL ASPECTS OF EVIDENCE 3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Examination of the origin, development, philosophy and constitutional bases 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.

105 COMMUNITY RELATIONS

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Exploration of the roles of the administration of justice practitioners and their agencies; examines the interrelations and role expectations among the various agencies and the emphasis placed on the development of positive relations between members of the system and the public.

106 PRINCIPLES OF INVESTIGATION

CSU, Associate Degree Applicable

3 UNITS

Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Study of basic principles of investigation; problems in dealing with the public; specific knowledge necessary for handling crime scenes, interviews, evidence, surveillance, technical resources, and case preparation.

107 CONCEPTS OF ENFORCEMENT SERVICES

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3 UNITS
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3 UNITS

2 - 4 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Historical exploration of the development of law enforcement dealing with the theories, philosophies, and concepts related to the role expectations of the law enforcement officer; emphasis on patrol, traffic and public service responsibilities and their relationship to the administration of justice system.

108 JUVENILE PROCEDURES

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: ADJUS 101 and eligibility for ENGL 101

Lecture: Minimum 48 hours per semester

Historical exploration of the development of the juvenile justice system dealing with the theories, philosophies, and concepts related to the organization, functions and jurisdiction of juvenile agencies, processing and detention of juveniles, juvenile case disposition, juvenile status and court procedures.

198 ADMINISTRATION OF JUSTICE WORK EXPERIENCE

CSU*, Associate Degree Applicable

Prerequisite: Enrolled in Administration of Justice occupational program and working at a job directly related to student's major

Corequisite: Enrolled in at least 7 units, including this Work Experience course

Work Experience: 150-300 hours Paid Employment 120-240 hours Unpaid Employment

Integration of classroom instruction with practical on-the-job experience coordinated with the program of study and related to appropriate occupational goals.

3 UNITS

Allied Health (AH)

Department: Allied Health Services Department Head: Kenneth Bryson, M.A.

050 INTRODUCTION TO HEALTH OCCUPATIONS

2 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 32 hours per semester

This course offers an introduction to a variety of health care fields and programs offered at local colleges. Professional organizations, regulatory bodies, and the policies that govern health care programs will be discussed. This is an excellent course for students interested in pursuing a health career and those who are preparing to set goals for their future.

090 SURVEY OF RADIOLOGIC TECHNOLOGY 1.5 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 24 hours per semester

Introduction to basic principles and applications of Radiologic Technology and historical development of radiology; orientation to careers in the field.

101 MEDICAL TERMINOLOGY

CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Students are instructed in the usage, spelling, pronunciation, and meaning of terminology used to describe the human body. Accordingly, the class will explore terms pertaining to the structure and function of the body, the pathologic processes that affect it, and the diagnostic and therapeutic procedures that are used in health maintenance and disease management.

119A-Z SELECTED TOPICS IN ALLIED HEALTH

.5 - 3 UNITS

3 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 8 to 48 hours per semester and/or Laboratory: Minimum 24 to 144 hours per semester Examination of current topics related to the allied health field.

Specific topics will be announced in the schedule of classes for the semester in which this course is offered.

198 ALLIED HEALTH WORK EXPERIENCE 2 - 4 UNITS

CSU*, Associate Degree Applicable

Prerequisite: Enrolled in Allied Health occupational program and working at a job directly related to student's major

Corequisite: Enrolled in at least 7 units, including this Work Experience course

Work Experience: 150-300 hours Paid Employment 120-240 hours Unpaid Employment

Integration of classroom instruction with practical on-the-job experience coordinated with the program of study and related to appropriate occupational goals.

American sign language (ASL)

Department: Language Arts Department Head: Mark Snowhite, M.A.

101 AMERICAN SIGN LANGUAGE I

4 UNITS

4 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 64 hours per semester Laboratory: Minimum 16 hours per semester

Introduction to American Sign Language as used by the deaf community in the United States and other parts of the world. A basic vocabulary of about 600 signs is presented. Typical ASL sentence structures are demonstrated. Social conventions involved in ASL use are discussed. The lectures discuss the history of deaf education and the deaf community up to the end of

the nineteenth century. **Note:** This course corresponds to the first year of high school American Sign Language.

102 AMERICAN SIGN LANGUAGE II

UC, CSU, Associate Degree Applicable

Prerequisite: ASL 101

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 64 hours per semester

Laboratory: Minimum 16 hours per semester

Continuing introduction to American Sign Language as used by the deaf community in the United States and other parts of the world. A basic vocabulary of about 600 additional signs is presented. Additional typical ASL sentence structures are demonstrated. More of the social conventions involved in ASL use are discussed. The lectures discuss the history of deaf education and the deaf community through the twentieth century. Particular attention is given to technological developments that have effects upon the deaf community and on individuals.

Note: This course corresponds to the second year of high school American Sign Language.

ANATOMY (ANAT)

Department Department Head: Faculty: Biological Sciences and Chemistry Lisa Shimeld, M.S. Mark Jonasson, Ph.D.

ASSOCIATE OF SCIENCE DEGREE ANATOMY see **BIOLOGY**

- 32 -

101 ESSENTIALS OF HUMAN ANATOMY AND PHYSIOLOGY 4 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester

This is a combined lecture and laboratory course emphasizing the basic structural, functional and developmental stages and clinical aspects of the human body. The course is an introductory survey of the human body in one semester. The essentials of structure and function will be included in each of the eleven body systems covered, as well as the concepts of homeostasis.

150 HUMAN ANATOMY AND PHYSIOLOGY I 4 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester

This is a lecture and laboratory course emphasizing an advanced understanding of the structural and functional aspects of the human body. This course is the first in a two semester series. The course covers biochemistry, cytology, cellular metabolism, histology, osteology, articulations, myology, and the integumentary and nervous systems.

151 HUMAN ANATOMY AND PHYSIOLOGY II 4 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: ANAT 150

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester

This is a lecture and laboratory course emphasizing an advanced understanding of the structural and functional aspects of the human body. This course is the second in a two semester series. The course covers hematology, somatic and special senses, the body's nutritional needs, pregnancy and maturation, electrolyte and acid/base balance, and the endocrine, lymphatic, immune, respiratory, cardiovascular, digestive, urinary, and reproductive systems.

159X4 HUMAN CADAVER DISSECTION 1 UNIT

CSU, Associate Degree Applicable

Prerequisite: ANAT 101 or ANAT 150 and 151

Laboratory: Minimum 48 hours per semester Human cadaver dissection for students with a special interest in

further anatomical studies. This course may be taken four times.

SELECTED TOPICS IN ANATOMY AND PHYSIOLOGY 1 - 4 UNITS

236ABCD 237ABCD 238ABCD 239ABCD

CSU, Associate Degree Applicable Prerequisite: None Lecture: Minimum 16-64 hours per semester and/or Laboratory: Minimum 16-64 hours per semester Study of topics of current interest in Anatomy and Physiology.

246 SPECIAL PROBLEMS IN ANATOMY AND PHYSIOLOGY 1 UNIT

CSU, Associate Degree Applicable Prerequisite: ANAT 101 or ANAT 150

Independent Study: Minimum 48 hours per semester

Independent projects involving library research or laboratory projects for students with a special interest in anatomy and physiology.

247 SPECIAL PROBLEMS IN ANATOMY AND PHYSIOLOGY 2 UNITS

CSU, Associate Degree Applicable Prerequisite: ANAT 101 or ANAT 150

Independent Study: Minimum 96 hours per semester

Independent projects involving library research or laboratory projects for students with a special interest in anatomy and physiology.

248 SPECIAL PROBLEMS IN ANATOMY AND PHYSIOLOGY 3 UNITS

CSU, Associate Degree Applicable Prerequisite: ANAT 101 or ANAT 150

Independent Study: Minimum 144 hours per semester Independent projects involving library research or la

Independent projects involving library research or laboratory projects for students with a special interest in anatomy and physiology.

Anthropology (Anthro)

Department: Department Head: Social Sciences Mario Perez, M.A.

ASSOCIATE OF ARTS DEGREE ANTHROPOLOGY

REQUIRED COURSES	UNITS
ANTHRO 100 Introduction to Archeology	3
ANTHRO 102 Cultural Anthropology	3
ANTHRO 106 Physical Anthropology	3
ANTHRO 107 The United States and the	3
North American Indians	
ANTHRO 110 Primitive Religions	3
GEOG 110 Physical Geography	3
SOC 100 Introduction to Sociology	3
TOTAL UNITS	21

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 INTRODUCTION TO ARCHEOLOGY

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

A general introduction to the history, objectives, and methods of modern archeology, prehistory and culture development of human groups, important archeological discoveries throughout the world, and the contributions of archeology to the understanding of the development of human culture from man's emergence as a culture-bearing animal millions of years ago to the beginning of written history.

102 CULTURAL ANTHROPOLOGY

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Introduction to the nature of human culture through a survey of the range of cultural phenomena of tribal and peasant peoples, linguistics, and other related topics. The explanation of similarities and differences among human societies is explored through processes of cultural change, social organization, religion, art, economics, and political organization, together with the impact of Western culture on non-Western societies. (CAN ANTH 4)

106 PHYSICAL ANTHROPOLOGY

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Introduction to human biology and evolution, the relationship of humans to other primates, the origin and antiquity of humans, fossil humans, geochronological dating, anthropometry, race classification and racial problems. (CAN ANTH 2)

107 THE UNITED STATES AND THE NORTH AMERICAN INDIANS 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

History of the North American Indian from first contact through conquest and reservation life to the present; examination of modern Indian communities, including red power, urban life and current problems, including material on traditional Indian culture. This course is also offered as HIST 107.

110 PRIMITIVE RELIGIONS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Comparative study of supernaturalism in traditional societies, both past and present, including witchcraft, magic, totemism, mythology and ritual nativistic movements, and the religious context of drug usage. Prehistoric religion will be examined, as well as the belief systems of selected tribal people. This course is also offered as RELIG 110.

Art (Art)

Department: Department Head: Faculty: Fine Arts Marc Wurmbrand, M.F.A. Marc Wurmbrand, M.F.A. Snezana Petrovic, M.F.A.

ASSOCIATE OF ARTS DEGREE ART

REOUIRED COURSES: UNITS ART 100 Art History I: Prehistoric Art to 3 Medieval Art ART 102 Art History II: Renaissance to 3 Modern ART 105 3 History of Modern Art ART 120X4 Basic Design 6 (must be taken twice) 3 ART 124X4 Drawing ART 132X4 Life Drawing 3 21 TOTAL UNITS

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 ART HISTORY I: PREHISTORIC ART TO MEDIEVAL ART 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Survey of outstanding periods in history of Western Art, tracing the relationship between the arts and society, which produced them. Required of all art majors and open to non-art majors.

102 ART HISTORY II: RENAISSANCE ART TO MODERN ART 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Survey of outstanding periods in history of Western Art, tracing the relationship between the arts and society which produced them, with a focus on the period comprised of the Renaissance to the Twentieth Century. Required of all art majors and open to nonart majors.

3 UNITS

105 HISTORY OF MODERN ART

UC, CSU, Associate Degree Applicable

Prerequisite: None Departmental Recommendations: ART 100 and ART 102 Lecture: Minimum 48 hours per semester

Survey of twentieth century art, touching on its historical roots and examining contemporary art as a manifestation of our social and environmental milieu.

101

3 UNITS

3 UNITS

1 - 3 UNITS

120X4 BASIC DESIGN

3 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 32 hours per semester and Laboratory: Minimum 64 hours per semester

Progressive exploration of both the spontaneous and the developmental creative process; discovery and development of resources necessary to visual communication access to tools and experiences necessary for visual literacy. This course may be taken four times.

124X4 DRAWING

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 32 hours per semester and Laboratory: Minimum 64 hours per semester

Progressive investigation and interpretation of form and space on a two dimensional surface, using a variety of media and techniques. Components will include employing perspective, light and shade, and linearity. This course may be taken four times.

126X4 PAINTING

3 UNITS

3 UNITS

3 UNITS

3 UNITS

3 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 32 hours per semester and

Laboratory: Minimum 64 hours per semester

Exploration of concepts, techniques, and materials of painting. This course may be taken four times.

132X4 LIFE DRAWING

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 32 hours per semester

Laboratory: Minimum 64 hours per semester

Progressive study of the qualities of the human figure, including an overview of anatomy in relation to figure drawing, graphic interpretation of the human figure, including contour, gesture, and volume drawings. This course may be taken four times.

175X4 SCULPTURE

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 32 hours per semester Laboratory: Minimum 64 hours per semester

Progressive exploration in form and space, using stone, wood, clay, and plaster. Developing of skills in using the tools required for carving and life modeling methods typically employed in these media. This course may be taken four times.

200X4 PRINTMAKING

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 32 hours per semester and Laboratory: Minimum 64 hours per semester

Focus on concepts, techniques, and skills of printmaking. Areas to be covered: linoleum, wood cuts, silk screening, etching, and stenciling. This course may be taken four times.

247X4 SPECIAL PROJECTS IN ART

UC*, CSU, Associate Degree Applicable

Prerequisite: Completion of a studio art class or

Corequisite: Concurrent enrollment in an art class

Departmental Recommendation: Student must have the approval of a faculty member and cooperatively produce a contract outlining goals and content of the project(s) to be undertaken

Independent Study: Minimum 48-144 hours per semester Independent study for selected students in any area of art, with projects determined jointly by student and instructor. This course may be taken four times.

275X4 CONTEMPORARY SCULPTURE **TECHNIQUES**

UC, CSU, Associate Degree Applicable Prerequisite: ART 175X4

Lecture: Minimum 32 hours per semester and Laboratory: Minimum 64 hours per semester

Exploration of the use of contemporary tools and equipment necessary to execute stone sculptures in the environment of a working artist's studio. This course may be taken four times.

Astronomy (Astron)

Department: Department Head: Faculty

Physical Science/Mathematics Sherri Wilson, M.S. Matthew Adams, Ph.D.

4

ASSOCIATE OF SCIENCE DEGREE ASTRONOMY

REQUIRED COURSES:		UNITS
ASTRON 150	Introduction to Astronomy	3
ASTRON 160	Astronomy Laboratory	1
PHYSIC 200	Physics I	6
PHYSIC 201	Physics II	6
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
	TOTALUNITS	39

RECOMMENDED COURSE: UNITS

MATH 254 Introduction to Ordinary **Differential Equations**

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

3 UNITS

150 INTRODUCTION TO ASTRONOMY 3 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendation: Eligibility for ENGL 101

Lecture: Minimum 48 hours per semester Introduction to the broad principles underlying the behavior of cosmic forces, earth's place in the universe, the historical role of astronomy, and the processes which shape the universe.

160 ASTRONOMY LABORATORY

1 UNIT

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Corequisite: ASTRON 150

Laboratory: Minimum 48 hours per semester

Laboratory work to supplement Astronomy 150: identification of constellations and stars, discussion of astronomical methods of observation, and additional work with the telescope and accessories.



Department: Department Head: Faculty:

Biological Sciences and Chemistry Lisa Shimeld, M.S. Mark Jonasson, Ph.D. Roger Sadler, M.S. Lisa Shimeld, M.S.

ASSOCIATE OF SCIENCE DEGREE BIOLOGY

REQUIRED COURSES:		UNITS
BIOL 130	Cell and Molecular Biology	4
BIOL 131	Populations and Organisms	4
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
PHYSIC 110	General Physics I	4
PHYSIC 111	General Physics II	4
	TOTAL UNITS	26

Students wishing to earn an A.A. with an emphasis in either Anatomy and Physiology or Microbiology must also complete:

Emphasis in Anatomy and Physiology:

	Human Anatomy and Physiology	4
ANAT 151 H	Iuman Anatomy and Physiology	4
	TOTALUNITS	8
	Microbiology:	
	Medical Microbiology	5
MICRO 247A	Special Problems in	(2)
	Microbiology	
	OR	
MICRO 102	Introductory Microbiology TOTALUNITS	(4) 7-9

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 GENERAL BIOLOGY

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester and Laboratory: Minimum 48 hours per semester

Study of the biological principles involved in cellular biology, human anatomy and physiology, animal and plant structure and function, genetics, evolution and ecology. The use of the scientific method to gather and evaluate information and form conclusions regarding living organisms is also covered. (Course designed for students not majoring in biology)

119 **EXPLORING BIOLOGY 3 UNITS**

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

Introduction to the nature of life from the simplest single-celled organisms to complex plants and animals and human beings, describes the subject matter in biology, examines the scientific method and considers both its promises and limitations. Students will gain understanding of and appreciation for the natural world.

123 ECOLOGY AND ENVIRONMENT 3 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

Study of the basic concepts of ecology including the physical environment, ecosystems, energy production and transfer, and the impact of humans on ecosystems. Environmental considerations include renewable and non-renewable energy, food resources, pest control, waste management, maintenance of air and water quality, sustaining the biodiversity of ecosystems, global climate, and political and economic considerations.

130 CELL AND MOLECULAR BIOLOGY 4 UNITS

UC, CSU, Associate Degree Applicable Prereauisite: CHEM 101

4 UNITS

Lecture: Minimum 48 hours per semester Laboratory: Minimum 48 hours per semester

Study of the principles of molecular and cell biology, with empha-

sis on cell structure, genetics, cellular respiration, photosynthesis, synthetic processes, and the role of physiology in maintaining homeostasis.

131 POPULATIONS AND ORGANISMS 4 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester and

Laboratory: Minimum 48 hours per semester

Study of classification, development, physiology and regulation at the level of the organism. Other topics are population dynamics, community ecology, evolution, and population genetics.

SPECIAL PROBLEMS IN BIOLOGY	
246AB	1 UNIT
247AB	2 UNITS
248AB	3 UNITS

UC*, CSU, Associate Degree Applicable Prerequisite: BIOL 100

Laboratory: Minimum 48-144 hours per semester

Independent projects for selected students with a special interest in biology; assigned problems will involve both library and laboratory work.

BUSINESS ADMINISTRATION (BUSAD)

Department:BusinessDean:Donna Ferracone, M.A.Liaison Counselor:John Gist, M.S.

ASSOCIATE OF ARTS DEGREE BUSINESS ADMINISTRATION

REQUIRED COURSES:		UNITS
BUSAD 100	Introduction to Business	3
BUSAD 200	Business Management	3
BUSAD 210	Business Law	3
BUSAD 230	Using Computers for Business	3
ACCT 210	Principles of Accounting	3
ACCT 211	Principles of Accounting	1
	Computer Laboratory	
MARKET 100	Marketing Principles	3
	TOTAL UNITS	19

BUSINESS MANAGEMENT CERTIFICATE

The objective of this certificate program is to provide entry-level, marketable employment skills to equip the student with a basic understanding of the terminology and basic concepts/procedures used in business, and to acquaint the student with various sub-functions within the overall career field of business. Completion of the certificate program will prepare the student for entry-level employment in a variety of related occupations including supervision, small business ownership, and management trainee.

Admission: Open to all students. Registration is limited to class size restrictions.

Certificate requirements include the completion of 5 core courses (no more than 1 course from each group) and the completion of 6 specialty courses.

		
	CORE COURSES	
1.		(2,0)
ACCT 210	Principles of Accounting	(3.0)
ACCT 211	Principles of Accounting	(1.0)
	Computer Laboratory	
	OR	(2.0)
ACCT 205	Bookkeeping	(3.0)
2.		
MARKET 100	Marketing Principles	3.0
3.		2.0
BUSAD 100	Introduction to Business	3.0
4.	D::: 1 CM :	(2.0)
ECON 200	Principles of Macroeconomics	(3.0)
ECON 001	OR	(2.0)
ECON 201	Principles of Microeconomics	(3.0)
5.		
S. BUSAD 053	Pusiness Computations	(3.0)
BUSAD 055	Business Computations OR	(3.0)
MATH 108	Statistics	(4.0)
MAIN 100	Statistics	(4.0)
6.		
Computer Lang	and Course	3.0
Computer Lang	uage course	5.0
	REQUIRED SPECIALTY COU	IRSES
BUSAD 200	Business Management	3.0
BUSAD 105	Small Business Management	3.0
BUSAD 210	Business Law	3.0
BUSAD 230	Using Computers in Business	3.0
ACCT 220	Principles of Accounting	3.0
	· · · · · · · · · · · · · · · · · · ·	

RETAIL MANAGEMENT CERTIFICATE

Principles of Accounting

Computer Laboratory

TOTAL

ACCT 221

The objective of this certificate program is to give students a foundation for a career in the retail management field. Some of the activities involved in retailing are selection and buying of merchandise, marketing, and product displays, selling, inventory control, customer relations and pricing. The student usually enters the retailing field as a clerk or cashier and advances in the following manner: Assistant Manager, Manager, and Upper Management.

1.0

31-33

Admission: Open to all students. Registration is limited to class size restrictions.

Completion of the following 31 units qualifies the student for the Retail Management Certificate

	REQUIRED COURSES	5
BUSAD 053	Business Computations	3.0
BUSAD 103	Human Resources Management	3.0
BUSAD 145	Business English	4.0
	Communications	
BUSAD 155	Human Relations in the	2.0
	Workplace	
BUSAD 200	Business Management	3.0
BUSAD 230	Using Computers for Business	3.0
ACCT 210	Principles of Accounting	3.0
ACCT 211	Principles of Accounting	1.0
	Computer Laboratory	
MARKET 100	Marketing Principles	3.0
MARKET 106	Retail Management	3.0
SPEECH 100	Elements of Public Speaking	3.0
	TOTAL	31

Contact the Admission's Office to apply for a certificate. If you wish to participate in the Graduation Ceremony, contact the Program Development Office at 389-3344 by March 1, 2004.

3 UNITS

053 BUSINESS COMPUTATIONS

Associate Degree Applicable Prerequisite: None Departmental Recommendations: Reading: Pass a

standardized test of reading comprehension at or above the 12th grade level, ENGL 015

Lecture: Minimum 48 hours per semester

Emphasis on practical business application of mathematics in the areas of accounting, marketing, finance, including payroll, invoicing, insurance, taxes, depreciation, stocks, bonds, annuities, and management analysis.

100 INTRODUCTION TO BUSINESS 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None Departmental Recommendations: Reading: Pass

a standardized test of reading comprehension at or above the 12th grade level, ENGL 101

Lecture: Minimum 48 hours per semester

Survey of the business field; provides a background in business and serves as the basic beginning college course in business subjects.

103 HUMAN RESOURCES MANAGEMENT 3 UNITS

Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 015

Lecture: Minimum 48 hours per semester

Introduction to the management of human resources and an understanding of the impact and accountability to the organization in terms of human resource activities. Global human resource strategies, social and organizational realities, legal implications affecting people at work, union/non-union practices, comparable work, employee compensation and benefits, and employee rights.

105 SMALL BUSINESS MANAGEMENT 3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 015

Lecture: Minimum 48 hours per semester

This course provides a background and hands-on experience in the field of entrepreneurship and a foundation for all business majors.

155 HUMAN RELATIONS IN THE WORKPLACE 2 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 32 hours per semester

Examination of the organizational behavior techniques necessary for developing harmony and cooperation and for improving interpersonal effectiveness on the job. This course will explore such issues as workforce diversity, teamwork, and empowerment.

198BUSINESS ADMINISTRATION
WORK EXPERIENCE2 - 4 UNITS

CSU*, Associate Degree Applicable

Prerequisite: Enrolled in Business Administration occupational program and working at a job directly related to student's major

Corequisite: Enrolled in at least 7 units, including this Work Experience course

Work Experience: 150-300 hours Paid Employment 120-240 hours Unpaid Employment

Integration of classroom instruction with practical on-the-job experience coordinated with the program of study and related to appropriate occupational goals.

3 UNITS

200 BUSINESS MANAGEMENT

CSU, Associate Degree Applicable

Prerequisite: BUSAD 100 or equivalent

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 015

Lecture: Minimum 48 hours per semester

Concepts and applications of successful functions including planning, organizing, controlling, and staffing. Current applications are examined and evaluated through media support and computer simulation.

210 BUSINESS LAW 3 UNITS

UC*, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 015

Lecture: Minimum 48 hours per semester

Principles of law and use of cases as applied to business, and specifically to contracts, principal and agent, employment, negotiable instruments, principal and surety, insurance, bailments, sales partnerships, corporations, security devices, trusts and estates and governmental regulations.

230 USING COMPUTERS FOR BUSINESS 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 16 hours per semester

Fundamentals of information systems and software applications. Knowledge of essential computer concepts and technologies. Emphasis on application of Windows techniques and hands-on experience producing contextually accurate information with word processing, spreadsheet, database, presentation graphics, desktop publishing, and e-mail software. Introduction to creating a Web page with hyperlinks. Integration of documents in a multiuser client-server environment and over the Internet.

CHEMISTRY (CHEM)

Department:	Biological Sciences and Chemistry
Department Head:	Lisa Shimeld, M.S.
Faculty:	Kelly Boebinger, M.A.
-	Kim Salt, Ph.D.

ASSOCIATE OF SCIENCE DEGREE CHEMISTRY

REQUIRED COURSES:		UNITS
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
CHEM 212	Organic Chemistry I	4
CHEM 213	Organic Chemistry II	4
PHYSIC 110	General Physics I*	4
PHYSIC 111	General Physics II*	4
	TOTALUNITS	26

*Students may substitute PHYSIC 200 and 201; highly recommended for those transferring to a four year institution.

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

087 PROBLEM SOLVING AND STUDY SKILLS FOR CHEMISTRY 1 UNIT

Associate Degree Applicable Prerequisite: MATH 090 or eligibility for MATH 095 Corequisite: CHEM 101

Lecture: Minimum 16 hours per semester

Discussion and problem solving sessions to be taken in conjunction with CHEM 101. A review of study skills and techniques for mastery of chemistry principles and test taking strategies. Algebra review with an emphasis on how to use mathematics and algebra to solve chemistry problems. Builds off of CHEM 101 material. Offered for Credit or No Credit only.

101 INTRODUCTION TO CHEMISTRY

4 UNITS

UC*, CSU, Associate Degree Applicable Prerequisite: MATH 090 or equivalent Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester

Introduction to college chemistry, with an emphasis on the general principles of chemistry, including critical thinking, analysis and problem solving in chemistry. Topics covered include but are not limited to, the study of matter and its properties, measurements, reactions, molecular structures, physical and chemical properties and laboratory techniques. * No UC credit granted if taken after CHEM 150.

102 INTRODUCTION TO ORGANIC CHEMISTRY 4 UNITS

UC*, CSU, Associate Degree Applicable

Prerequisite: CHEM 101 or CHEM 150 or equivalent Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester

Introduction to college organic chemistry, with an emphasis on the fundamental principles of organic chemistry. Topics covered include the study of organic compounds, nomenclature, properties, reactions, biochemistry and laboratory techniques. * No UC credit granted if taken after CHEM 212.

150 GENERAL CHEMISTRY I

5 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: MATH 095 with a C or better or equivalent Lecture: Minimum 48 hours per semester

Laboratory: Minimum 96 hours per semester

First semester of a two semester general chemistry sequence. A requirement for many science majors, the course is a study of the fundamental principles of chemistry. Students are taught the application of these principles with special significance placed on chemical computation. Topics include: atomic structure, bonding, the periodic table, stoichiometry, chemical reactions, and nomenclature (the naming of chemicals). As with the lecture portion of the class, the laboratory component is both qualitative and quantitative in scope. Critical thinking and writing, measurement, identification, and analysis skills are emphasized. The course meets requirements of science majors as well as pre-dental, pre-medical, pre-veterinary, and pre-engineering majors.

151 GENERAL CHEMISTRY II

UC, CSU, Associate Degree Applicable Prerequisite: CHEM 150 with a grade of C or better or

equivalent

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 96 hours per semester

This course is a continuation of CHEM 150. This is a study of fundamental principles of chemistry and their applications. This course will cover such topics as kinetics, equilibrium, acids and bases, thermodynamics, electrochemistry, nuclear reactions, and chemistry of coordination compounds. The laboratory will include a variety of experiments to supplement and reinforce class work. The course meets requirements of chemistry, biology, physics, pre-dental, pre-medical, pre-veterinary, and pre-engineering majors.

212 ORGANIC CHEMISTRY I

4 UNITS

5 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: CHEM 151 with a C or better Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester

First semester of a two semester organic chemistry sequence. Study of modern organic chemistry including structure, nomenclature, reactivity, synthesis, and reaction mechanisms. Spectroscopy and modern theoretical concepts studied. Lab techniques of purification, isolation, synthesis reactions, and spectroscopic analysis.

213 ORGANIC CHEMISTRY II 4 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: CHEM 212 with a C or better Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester

Second semester of a two semester organic chemistry sequence. Study of modern organic chemistry including structure, nomenclature, reactivity, synthesis, and reaction mechanisms. Lab technniques of purification, isolation, synthesis reactions, and spectroscopic analysis.

CHILD DEVELOPMENT (CD)

Department:Child Development and EducationDepartment Head:Jean Searle-Grassick, M.A.Faculty:JoAnn Jones, M.Ed.Meridyth McLaren, M.S.Jean Searle-Grassick, M.A.Liaison Counselor:Judi Harrington, M.A.

ASSOCIATE OF ARTS DEGREE CHILD DEVELOPMENT

REOUI	RED COURSES:	UNITS
	Introduction to Child Development	3
	Child Growth and Development	3
CD 112	÷	3
	Development	
CD 126	Child, Family and Community	3
	K2 Child Growth and Development	4
	Laboratory	
	·	
Select at	t least two courses from the following:	
CD 115	Health, Welfare and Nutrition for	(3)
	Children	
CD 130	Music and Movement for Children	(3)
CD 131	Developmental Art for Children	(3)
CD 132	Creative Experiences for Children*	(3)
CD 133	Creative Science and Math Activities	(3)
	for Children	
CD 134	Language and Listening, Literacy and	(3)
	Literature Experiences for Children*	
CD 136	Creative Art Activities for Children	(3)
CD 185	Infant/Toddler Growth and	(3)
	Development	
CD 186	Infant/Toddler Activities	(3)

TOTAL UNITS

*Highly recommended.

RECOMMENDED COURSES: UNITS

It is highly recommended that students select four CD electives from the following:

ereerreejr	sint the jette h that	
CD 101	Parent Child Interaction	(3)
CD115	Health, Welfare and Nutrition for	(3)
	Children	
CD 116X20	Pediatric CPR, First Aid and	(2)
	Safety for Children	
CD 130	Music and Movement for Children	(3)
CD 131	Developmental Art for Children	(3)
CD 132	Creative Experiences for Children	(3)
CD 133	Creative Science and Math Activities	(3)
	for Children	
CD 134	Language and Listening, Literacy and	(3)
	Literature Experiences for Children	
CD 136	Creative Art Activities for Children	(3)
CD 137	Play and Materials in Early Learning	(3)
CD 175	Home Day Care Practices, Programs	(3)
	and Business Principles	
CD 185	Infant/Toddler Growth and	(3)
	Development	
CD 186	Infant/Toddler Activities	(3)
CD 205X2	Child Growth and Development	(4)
	Laboratory	
CD 244	Children with Special Needs	(3)
CD 270	Mentor Teacher/Adult Supervision	(3)
CD 271	Administration: Management and	(3)
	Organization of Child Development	
CD 272	Administration: Human Relations in	(3)
	Child Development Programs	
	-	

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

CHILD HOME DAY CARE PROVIDER CERTIFICATE

Admission: Open to all students. Registration is limited to class size restrictions.

Completion of the following 11 units qualifies the student for the Child Home Day Care Provider Certificate.

	REQUIRED COURSES	
CD 105	Child Growth and Development	3.0
CD 132	Creative Experiences for Children	3.0
CD 175	Home Day Care Practices, Programs and Business Principles	3.0
CD 116X20	Pediatric CPR, First Aid and Safety for Children	2.0
	TOTAL	11.0

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ASSOCIATE TEACHER CERTIFICATE

Admissions: Open to all students. Registration is limited to class size restrictions.

Completion of the following 16 units qualifies the student for the Associate Teacher Certificate. See Child Development Department for State Licensing requirements.

REQUIRED COURSES

CD 100	Introduction to Child	3.0
	Development	
CD 105	Child Growth and Development	3.0
CD 112	Principles and Practices in	3.0
	Child Development	
CD 126	Child, Family and the	3.0
	Community	

Laboratory OR Work Experience with Young Children

CD 205X2	Child Growth and	4.0
	Development Laboratory	
	TOTAL	16.0

TEACHER CERTIFICATE

Admission: Open to all students. Registration is limited to class size restrictions.

Completion of the following 28 units qualifies the student for the Teacher Certificate. See Child Development Department for State Licensing requirements.

	REQUIRED COURSES	
CD 100	Introduction to Child Development	3.0
CD 105	Child Growth and Development	3.0
CD 112	Principles and Practices in Child Development	3.0
CD 126	Child, Family, and the Community	3.0
CD 205X2	Child Growth and Development Laboratory	4.0

4 Courses from the Following List:

CD 101	Parent Child Interaction	(3.0)
CD 115	Health, Welfare and Nutrition	(3.0)
	for Children	
CD 130	Music and Movement for	(3.0)
	Children	
CD 131	Developmental Art for Children	(3.0)
CD 132	Creative Experiences for	(3.0)
	Children	
CD 133	Creative Science and Math	(3.0)
	Activities for Children	
CD 134	Language and Listening,	(3.0)
	Literacy and Literature	
	Experiences for Children	
CD 136	Creative Art Activities for	(3.0)
	Children	
CD 137	Play and Materials in Early	(3.0)
	Learning	

CD 175	Home Day Care Practices, Programs, and Business	(3.0)
	Principles	
CD 185	Infant/Toddler Growth and	(3.0)
	Development	
CD 186	Infant/Toddler Activities	(3.0)
	TOTAL	28.0

Students must also have 16 General Education units and experience to apply for State Child Development Permit.

MASTER TEACHER CERTIFICATE

Admissions: Open to all students. Registration is limited to class size restrictions.

Completion of the following 37 units qualifies the student for the Master Teacher Certificate. See Child Development Department for State Licensing requirements.

REQUIRED COURSES	
Introduction to Child	3.0
*	3.0
Principles and Practices in	3.0
Child Development	
Child, Family, and the	3.0
Community	
Mentor Teacher/Adult	3.0
Supervision	
Child Growth and	4.0
Development Laboratory	
	Introduction to Child Development Child Growth and Development Principles and Practices in Child Development Child, Family, and the Community Mentor Teacher/Adult Supervision Child Growth and

6 or 7 units from the following list to complete at least one specialization:

Note: A specialization consists of completing a pair of courses (6 or 7 units) from the topics below.

MUSIC SPECIALIZATION

CD 130	Music and Movement for	(3.0)
	Children	
	AND	
MUSIC 100	Fundamental Skills in Music	(3.0)

ART SPECIALIZATION

CD 131	Developmental Art for Children	(3.0)
	AND	
CD 136	Creative Art Activities for	(3.0)
	Children	

LANGUAGE AND LITERACY SPECIALIZATION

CD 134	Language and Listening, Literacy and Literature	(3.0)	
	Experiences for Children		
	AND		
ENGL 155	Children's Literature	(3.0)	

INFANT/TODDLER SPECIALIZATION

CD 185	Infant/Toddler Growth and Development	(3.0)
	AND	
CD 186	Infant/Toddler Activities	(3.0)

SPECIAL NEEDS SPECIALIZATION

CD 244	Children with Special Needs	(3.0)
	AND	
ASL 101	American Sign Language I	(4.0)

4 Courses from the Following List (Selected Courses can not be Included in your Specialization

SITE SUPERVISOR CERTIFICATE

Admissions: Open to all Students. Registration is limited to class size restrictions.

Completion of the following 37 units qualifies the student for the Site Supervisor Certificate. See Child Development Department for State Licensing requirements.

REQUIRED COURSES

CD 100	Introduction to Child	
CD 105	Development Child Crowth and Development	3.0
CD 105	Child Growth and Development	5.0
CD 112	Principles and Practices in	3.0
	Child Development	
CD 126	Child, Family, and the	3.0
	Community	
CD 270	Mentor Teacher/Adult	3.0
	Supervision	
CD 271	Administration: Management	3.0
	and Organization of	
	Child Development	
CD 272	Administration: Human	3.0
	Relations in Child	
	Development Programs	
CD 205X2	Child Growth and	4.0
	Development Laboratory	

4 Courses from the Following List:

CD 101	Parent Child Interaction	(3.0)	
CD 115	Health, Welfare, and	(3.0)	
	Nutrition for Children		
CD 130	Music and Movement for	(3.0)	
	Children		
CD 131	Developmental Art for	(3.0)	
	Children		
CD 132	Creative Experiences for	(3.0)	
	Children		
CD 133	Creative Science and Math	(3.0)	
	Activities for Children		
CD 134	Language and Listening,	(3.0)	
	Literacy and Literature		
	Experiences for Children		
CD 136	Creative Art Activities for	(3.0)	
	Children		
CD 137	Play and Materials in Early	(3.0)	
	Learning		
CD 175	Home Day Care Practices,	(3.0)	
	Programs, and Business		
CD 105	Principles	(2.0)	
CD 185	Infant/Toddler Growth and	(3.0)	
CD 104	Development	(2.0)	
CD 186	Infant/Toddler Activities	(3.0)	
	TOTAL	37.0	

Students must also have 16 General Education units and experience to apply for the State Child Development Permit.

Contact the Admission's Office to apply for a certificate. If you wish to participate in the Graduation Ceremony, contact the Program Development Office at 389-3344 by March 1, 2004.

081 PARENTING THE INFANT

3 UNITS

3 UNITS

3 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

This course presents an introduction to the basic development of the infant. The focus is on parenting roles and responsibilities for nurturing and caring for the infant. It specifically identifies current trends and issues concerning the development and parenting of the infant.

100 INTRODUCTION TO CHILD DEVELOPMENT 3 UNITS *CSU, Associate Degree Applicable*

Prerequisite: None

Lecture: Minimum 48 hours per semester

Overview of early childhood programs, their histories, philosophies and developmentally appropriate practices, methods of guidance and discipline. Students will become familiar with licensing and regulations for state, federal and private programs. Reviews philosophies of educating young children and learning, while examining developmental appropriate practices, including the influence of culture and inclusive environments on the developing child. Explores career paths and professional growth.

101 PARENT CHILD INTERACTION

CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Review of the concept of human development and the interactions within the biological, psychological, social and cultural phenomena and their relationship to children's and parent's attitudes and behavior. Family dynamics, communication and discipline are explored.

105 CHILD GROWTH AND DEVELOPMENT 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

This course presents a study of human development from conception through adolescence within cultural and family contexts. It examines cognitive, physical, social and emotional development, both typical and atypical. Students will be introduced to the theories, research and applications that constitute the field of child development by examining both traditional areas of the field and more recent innovations. Observational study of children included.

112 PROGRAMS AND PRACTICES IN CHILD DEVELOPMENT

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: CD 105 Lecture: Minimum 48 hours per semester

This course gives a general overview of curriculum design for early childhood programs. Includes planning, implementation and evaluation of curriculum and programs. Students will observe the interaction of play and development of the whole child. Organization of materials and resources are explored.

115 HEALTH, WELFARE, AND NUTRITION FOR CHILDREN 3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: CD 105

Lecture: Minimum 48 hours per semester

Training in health, nutrition, disaster preparedness, children with special needs, child abuse identification and prevention, and caring for the mildly ill child. (This course meets the recommended training requirements of county and state licensing agencies.)

116X20 PEDIATRIC CPR, FIRST AID AND SAFETY FOR CHILDREN 2 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 24 hours per semester Laboratory: Minimum 24 hours per semester

Training and certification in pediatric CPR, pediatric first aid, prevention of the spread of infectious disease, immunizations, child safety, and injury prevention. (Meets county and state licensing requirements for child care workers.) This course is also offered as EMS 116X20. This course may be taken twenty times.

126 CHILD, FAMILY AND COMMUNITY 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None Departmental Recommendation: CD 105

Lecture: Minimum 48 hours per semester

This course examines the effects of family and community on a child's development. Interaction between child, family, school, peers, media and community are explored. Emphasis on ethnic diversity, social class, gender roles and their impact on family, behavior, values, morals and attitudes. Explores the value of communication, the development of child advocacy skills and the ability to use community resources to empower families and children.

130 MUSIC AND MOVEMENT FOR CHILDREN 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: CD 105

Lecture: Minimum 48 hours per semester

Study of music and movement growth and development of children. Philosophy, theory, technique and application of musical concepts used with children are explored. The basic elements of music are investigated with an emphasis on planning and facilitating developmentally appropriate music and movement experiences with children.

131 DEVELOPMENTAL ART FOR CHILDREN 3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: CD 105

Lecture: Minimum 48 hours per semester

Study of the artistic and aesthetic growth and development of children. Exploration of philosophy, theory and application of art concepts. Investigate the basic elements of art with an emphasis on how to plan, prepare and implement a developmentally appropriate art experience for children.

132 CREATIVE EXPERIENCES FOR CHILDREN 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: CD 105

Lecture: Minimum 48 hours per semester

In-depth study of creativity in children, including the rationale for creative development. Philosophy and theories of the general humanities are investigated, including art, music, movement, and drama as facilitators for developing basic skills, human interaction and aesthetic appreciation in children.

133 CREATIVE SCIENCE AND MATH ACTIVITIES FOR CHILDREN 3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: CD 105 Lecture: Minimum 48 hours per semester

Study of basic scientific theories and practices for teaching young children simple methods and processes of science and math. Classifying, simple reasoning, observing, making hypotheses, testing, generalizing cause and effect, using energy, matter and living things are explored. Fundamental mathematical concepts such as one to one correspondence, number sense and counting, sets and classifying, parts and wholes, basic measurements, ordering and patterning are also explored.

134 LANGUAGE AND LISTENING, LITERACY AND LITERATURE EXPERIENCES FOR CHILDREN

3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: CD 105

Lecture: Minimum 48 hours per semester

Study and application of whole language, listening, literary and literature experiences for children. Use of conversations, literature, storytelling, flannel boards, finger plays, dramatic play and other varied media. Developmentally appropriate whole language reading and writing activities for children.

136 CREATIVE ART ACTIVITIES FOR CHILDREN 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: CD 105 Lecture: Minimum 48 hours per semester

Study of artistic expression in children. Overview of artistic abilities in children. Includes in-depth exploration of diverse artistic mediums and materials used with children. Emphasis on planning, preparing and implementing developmentally appropriate art experiences for children ages 2 through 10.

137 PLAY AND MATERIALS IN EARLY LEARNING

3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: CD 105

Lecture: Minimum 48 hours per semester

In-depth study of the dynamics of play and play materials for children including the rationale for play as a facilitator of learning. History and philosophy of play, current theories and their relationships to materials as they are utilized in creating and implementing play environments.

175 HOME DAY CARE PRACTICES, PROGRAMS AND BUSINESS PRINCIPLES 3 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

An introduction to in-home child care business practices, general development of children, and California licensing practices. Focuses on advertising, fees, collection and record keeping systems for home day care, childcare food program regulations and licensing standards.

185 INFANT/TODDLER GROWTH AND DEVELOPMENT

3 UNITS

3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Study of physical, cognitive, social, emotional and creative development of children ages birth to 36 months. Includes observing and keeping records, parent issues, accessing needs and services, and developing appropriate practices with infants and toddlers. Satisfies licensing training requirements for infant/toddler child development workers.

186 INFANT/TODDLER ACTIVITIES

CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semest

Course focuses on preparing and facilitating developmentally appropriate activities and curriculum for infants and toddlers ages birth to 36 months. Satisfies licensing training requirements for infant/toddler child development workers.

198 CHILD DEVELOPMENT WORK EXPERIENCE 2 - 4 UNITS

CSU*, Associate Degree Applicable

Prerequisite: Enrolled in Child Development occupational program and working at a job directly related to student's major

Corequisite: Enrolled in at least 7 units, including this Work Experience course

Work Experience: 150-300 hours Paid Employment 120-240 hours Unpaid Employment

Integration of classroom instruction with practical on-the-job experience coordinated with the program of study and related to appropriate occupational goals.

205X2 CHILD GROWTH AND DEVELOPMENT LABORATORY 4 UNITS

CSU, Associate Degree Applicable

Prerequisite: CD 105

Lecture: Minimum 24 hours per semester

Laboratory: Minimum 120 hours per semester

Supervised experience and participation in a group program for preschool children at the CHC Child Development Studies Center. Emphasis is on curriculum planning and evaluation, discipline, guidance techniques, instructional method, cooperative relationships with staff, parents, and children, and professional ethics. (Required for CHC Child Development Certificates for an Associate Teacher, Teacher, Master Teacher and Site Supervisor.) This course may be taken two times.

244 CHILDREN WITH SPECIAL NEEDS

3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: CD 105

Lecture: Minimum 48 hours per semester

Study of the special needs child to include the entire spectrum from gifted to handicapped during the formative years. To aid the parent or professional worker in teaching social, emotional, physical and cognitive curricula to special needs children in an inclusive setting. A typical development is explored. Special emphasis is the adjustment of the child to home, school and community.

270 MENTOR TEACHER/ADULT SUPERVISION 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: CD 105

Lecture: Minimum 32 hours per semester

Laboratory: Minimum 48 hours per semester

Methods and principles of supervising student teachers in early childhood educational settings. Emphasis on the role of experienced classroom teachers who function as mentors to new teachers while simultaneoulsy addressing the needs of children, parents and other staff. (A required course for Master Teacher level of the Child Development Permit.)

271 ADMINISTRATION: MANAGEMENT AND ORGANIZATION OF CHILD DEVELOPMENT PROGRAMS 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: CD 105, CD 126 and one of the following curriculum classes: CD 130 through CD 137

Lecture: Minimum 32 hours per semester

Laboratory: Minimum 48 hours per semester

Budgeting, licensing, planning, organizing and managing a variety of programs for young children. The administrator's role, site development, ongoing organization, personnel program components, working with staff, parents and volunteers will be included in the course. (Designed to meet California State Child Development Permit requirements for a Site Supervisor and Title 22 requirements for a Child Care Center Director.)

272 ADMINISTRATION: HUMAN RELATIONS IN CHILD DEVELOPMENT PROGRAMS 3 UNITS

CSU, Associate Degree Applicable

Prerequisites: CD 105, CD 126 and one of the following curriculum classes: CD 130 through CD 137

Lecture: Minimum 32 hours per semester

Laboratory: Minimum 48 hours per semester

This course explores the overall operations and human relations aspect of administering children's programs. Funding, business management practices, community relations, professional responsibilities and growth, labor relations and staff management will be addressed. (Designed to meet California State Child Development Permit requirements for Site Supervisor.)

295 ELEMENTARY LABORATORY

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: Acceptance into program Departmental Recommendation: CD 105 Lecture: Minimum 16 hours per semester Laboratory: Minimum 96 hours per semester

This course offers supervised experience and participation in an elementary school setting. Emphasis is on understanding the role of the elementary school teacher, instructional methods, aiding literacy, cooperative relationships with staff, parents, children and professional ethics of teaching. This class is degree applicable and transferable. This course transfers to CSU and is required for the Liberal Studies/Education program at CSUSB.

Computer Information Systems (CIS)

Department:	Information Technologies
1	e
Dean:	Donna Ferracone, M.A.
Faculty:	Michael Davenport, B.S.
	Denise Hoyt, M.A.
	Catherine Pace-Pequeno, M.P.A.
Liaison Counselor:	Robert McAtee, M.A.

ASSOCIATE OF SCIENCE DEGREE COMPUTER INFORMATION SYSTEMS

REQUIR	RED COURSES:	UNITS
CIS 101	Introduction to Computers and	3
	Information Technology	
CIS 103	Programming in Visual Basic	(3)
	OR	
CIS 114	C++ Programming	(3)
CIS 130	Hardware and Information Technolog	gy 3
CIS 140	Networking Fundamentals (Cisco	(3.5)
	Networking Academy)	
	OR	
CIS 150	Networking Essentials with TCP/IP	(3)

Select nine additional units from courses in one of the following tracks:

Emphasis in Network Technician:

CIS 109 Operating Systems and Environments	(3)
CIS 131 Help Desk	(3)
CIS 151 Network Client Administration	(3)
CIS 152 Network Server Administration	(3)

Emphasis in Hardware Technician:

CIS 109 Operating Systems and Environments	(3)
CIS 131 Help Desk	(3)
CIS 152 Network Server Administration	(3)

Emphasis in Programming:

CIS 113	Java and J++ Programming	(3)
CIS 115	Programming in C	(3)
CIS 116	C++ Programming II	(3)
CIS 117	Scripting	(3)
CIS 203	Advanced Visual Basic	(3)
MATH 151	Precalculus	(4)
MATH 250	Single Variable Calculus I	(4)
MATH 251	Single Variable Calculus II	(4)
MATH 252	Multivariable Calculus	(5)
MATH 254	Introduction to Ordinary Differential	(4)
	Equations	

Emphasis in Webmaster:

	TOTALUNITS	21-21.5
	Design	
CIS 168	E-Commerce Programming and	(3)
CIS 163	Introduction to Photoshop	(1.5)
	Dreamweaver	
CIS 161	Web Design and Programming Using	(2)
CIS 160	Authoring Accessible Web Pages	(2)
CIS 118	Web Site Management	(3)
CIS 117	Scripting	(3)
CIS 111	Web Page Programming and Design	(3)

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

CISCO CERTIFIED NETWORK ASSOCIATE CERTIFICATE

Admission: Open to all students. Registration is limited to class size restrictions.

Completion of 14 units qualifies the student for the Cisco Certified Network Associate Certificate.

REQUIRED COURSES

CIS 140	Networking Fundamentals	3.5
CIS 141	Basic Routing Cisco	3.5
	Semester II	
CIS 142	Fundamentals of LANs	3.5
	Cisco Semester III	
CIS 143	Fundamentals of WANS	3.5
	Cisco Semester IV	
	TOTAL	14.0

CISCO CERTIFIED NETWORK PROFESSIONAL CERTIFICATE

Admissions: Open to all students. Registration is limited to class size restrictions.

Completion of 14 units qualifies the student for the Cisco Certified Network Professional Certificate.

REQUIRED COURSES

CIS 144	Advanced Routing – LANs	3.5
	Cisco Semester V	
CIS 145	Advanced WAN – Cisco	3.5
	Semester VI	
CIS 146	LAN Switching - Cisco	3.5
	Semester VII	
CIS 147	Network Troubleshooting -	3.5
	Cisco Semester VIII	
	TOTAL	14.0

COMPUTER HARDWARE TECHNICIAN CERTIFICATE

Admissions: Open to all students. Registration is limited to class size restrictions.

Completion of 12 units qualifies the student for the Computer Hardware Technician Certificate.

REQUIRED COURSES

CIS 130	Hardware and Information	3.0
	Technology	
CIS 131	Help Desk	3.0
CIS 150	Network Essentials with	3.0
	TCP/IP	
CIS 190C	Hardware Technician	3.0
	Internship	
	TOTAL	12.0

COMPUTER INFORMATION SYSTEMS CERTIFICATE

Admissions: Open to all students. Registration is limited to class size restrictions.

-	of 24 units qualifies the studen a Science Certificate	t for the Computer
CIS 101	Introduction to Computers and Information Technology	3.0
CIS 103	Programming in Visual Basic	3.0
CIS 105	Database Concepts and Design	3.0
CIS 109	Operating Systems and Environments	3.0
CIS 111	Web Page Programming and Design	3.0
CIS 113	Java and J++ Programming	3.0
CIS 114	Programming in C++I	3.0
CIS 115	Programming in C	3.0
CIS 116	Programming in C++II	3.0
CIS 117	Scripting	3.0
CIS 118	Web Site Management	3.0
CIS 130	Hardware and Information Technology	3.0
CIS 131	Help Desk	3.0
CIS 150	Network Essentials with TCP/IP	3.0
CIS 151	Network Client Administration	3.0
CIS 152	Network Server Administration	3.0
CIS 171	Introduction to Robotics	3.0
CIS 203	Advanced Visual Basic	3.0

3 UNITS

NETWORK TECHNICIAN CERTIFICATE

Admissions: Open to all students. Registration is limited to class size restrictions

Completion of 15 units qualifies the student for the Network Technician Certificate.

REQUIRED COURSES

CIS 130	Hardware and Information	3.0
CIE 150	Technology	2.0
CIS 150	Network Essentials with TCP/IP	3.0
CIS 151	Network Client Administration	3.0
CIS 152	Network Server Administration	3.0
CIS 190B	Network Administration	3.0
	Internship	
	TOTAL	15.0

PROGRAMMING CERTIFICATE

Admissions: Open to all students. Registration is limited to class size restrictions.

Completion of 15 units qualifies the student for the Programming Certificate.

CIS 103	Programming is Visual Basic	3.0
CIS 113	Java and J++ Programming	3.0
CIS 114	C++ Programming I	3.0
CIS 115	Programming in C	3.0
CIS 116	C++ Programming in II	3.0
CIS 117	Scripting	3.0
CIS 203	Advanced Visual Basic	3.0

WEBMASTER CERTIFICATE

Admissions: Open to all students. Registration is limited to class size restrictions

Completion Certificate	of 14 units qualifies the stude	nt for the Webmaster
CIS 111	Web Page Programming and Design	3.0
CIS 117	Scripting	3.0
CIS 118	Web Site Management	3.0
CIS 160	Authoring Accessible Web Pages	2.0
CIS 163	Introduction to PhotoShop	1.5
CIS 168	E-Commerce Programming and Design	3.0
CIS 190A	Web Master Internship	3.0

Contact the Admission's Office to apply for a certificate. If you wish to participate in the Graduation Ceremony, contact the Program Development Office at 389-3344 by March 1, 2004.

101 INTRODUCTION TO COMPUTER AND INFORMATION TECHNOLOGY

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

Introduction to computer and information technology including the history, terminology, components and operation of computer systems. Includes an overview and use of selected software applications including spreadsheets, and databases. Includes a program development using a high-level language. Discusses the impact of computers in society and the work place. No previous computer background required.

103 PROGRAMMING IN VISUAL BASIC 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Introduction to standards and conventions of programming a graphical user interface using Visual Basic. Emphasis on understanding proper design, placement, and coding of the graphical features of the interface. Similarities and differences of Visual Basic and traditional programming languages will be explored. Microsoft Visual Basic will be utilized to develop programs.

105 DATABASE CONCEPTS AND DESIGN 3 UNITS CSU, Associate Degree Applicable

Prerequisite: CIS 101

Lecture: Minimum 48 hours per semester

Fundamentals of database concepts with an emphasis on the design and implementation of relational databases. Includes data querying, sorting, inserting, deleting, and report design and generation. Entity relationship diagrams, normalizing of database tables, implementing integrity rules, developing data-dictionaries and SQL (structured query language) will be emphasized.

109 OPERATING SYSTEMS AND ENVIRONMENTS 3 UNITS

CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

An intensive study of three current operating systems to include Windows, DOS, and Unix/Linux as they relate to business users, personal users, and computer programmers in a hands-on environment. An emphasis on system components, functions, and commands to include disk file management, system utilities, command line prompt, text editor, communications accessories, graphics, data protection, printer control, desktop customization, memory management and hardware configuration.

111 WEB PAGE PROGRAMMING AND DESIGN 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Introduction to web page design for personal users, business users and computer professionals. Introduces web page design, programming, and administration using HTML, DHTML, XHTML and scripting languages such as JavaScript and Visual Basic. Students will design, create, publish and maintain web pages.

113 JAVA AND J++ PROGRAMMING

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Introduction to Internet-based, object-oriented programming using current programming languages such as Java and J++. Includes writing, debugging and running programs and applets in an interactive computer system to solve both general-purpose, business and interactive Web-based problems.

114 C++ PROGRAMMING I

UC*, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Introduction to object oriented programming using the C++ programming language. Includes program development, debugging, and implementation of programs to solve numerical and non-numerical problems on an interactive computer system. Course topics will include: The C/C++ programming environment, program control structures, Functions, Classes, stream input/output, and array processing.

*CIS 114 and 115, maximum UC credit one course.

115 PROGRAMMING IN C

UC*, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Fundamentals of computer programming and problem solving using the C language. Includes writing, debugging, and running programs in an interactive computer system to solve both numerical and non-numerical problems. Microsoft C/C++ will be utilized to develop programs.

*CIS 114 and 115, maximum UC credit one course.

116 C++ PROGRAMMING II 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: CIS 114 or CIS 115

Lecture: Minimum 48 hours per semester

Introduction to object oriented programming using the C++ programming language. Includes program development, debugging, and implementation of programs to solve numerical and non-numerical problems on an interactive computer system. Course topics will include: Functions, Classes, operator overloading, inheritance, polymorphism, file input/output, templates, and string handling.

117 SCRIPTING

3 UNITS

3 UNITS

3 UNITS

3 UNITS

CSU, Associate Degree Applicable Prerequisite: CIS 111

Lecture: Minimum 48 hours per semester

Introduction to Web page scripting and programming using current scripting languages. Includes program development, debugging, and implementation of programs to enhance web pages. Course topics will include: Client-side and Server-side scripts, ASP and database integration.

118 WEB SITE MANAGEMENT

CSU, Associate Degree Applicable

Prerequisite: CIS 111 Lecture: Minimum 48 hours per semestert

Introduction to Web site management and security. Includes management of server-side software, development of maintenance and security plans, server-side programming and existing web site updates and maintenance.

124 VISUAL BASIC FOR APPLICATIONS 3 UNITS Associate Degree Applicable

Prerequisite: CIS 101

Lecture: Minimum 48 hours per semester

Introduction to Visual Basic for Applications Programming Language. Includes program development, debugging, and implementation of programs to solve numerical and non-numerical problems on an interactive computer system. Course topics will include VBA use in word processing, spreadsheet and database.

125 C# PROGRAMMING I

3 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Introduction to object oriented programming using the C# programming language. Includes program development, debugging, and implementation of programs to solve numerical and non-numerical problems on an interactive computer system. Course topics will include: The C# programming environment, program control structures, Functions, Classes, stream input/output, and array processing.

130 HARDWARE AND INFORMATION TECHNOLOGY

3 UNITS

Associate Degree Applicable Prerequisite: None

Departmental Recommendations: CIS 101 and CIS 109 Lecture: Minimum 48 hours per semester.

A hands-on course covering basic computer hardware, software, maintenance and training technologies. Certification type material will be presented in this course enabling students to understand the material as well as help them prepare to complete industry certification exams. Topics include hardware components, operating system functions, information systems maintenance, strategies for the organization, and end-user training options. Handson experience with different computer hardware, operating systems, and software utilities. Provides the fundamental foundation in preparation for industry certification.

131 HELP DESK

3 UNITS

Associate Degree Applicable Prerequisite: None

Departmental Recommendations: CIS 101 and CIS 130 Lecture: Minimum 48 hours per semester

An introductory course covering basic computer Help Desk technology. Certification type material will be presented in this course enabling students to understand the material as well as help prepare them to complete the certification exams. Topics include using, administrating, deploying, supporting and troubleshooting end-user computer hardware and software, as well as providing a fundamental foundation in preparation for industry certification.

3 UNITS

140 NETWORKING FUNDAMENTALS (CISCO NETWORKING ACADEMY) 3.5

3.5 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 24 hours per semester

Semester I of the Cisco Certified Network Associate (CCNA) exam preparation program. This course is designed to teach students both current and emerging networking technologies and will help prepare them for employment or further education and training in the computer-networking field. Instruction includes, but is not limited to, local-area networks (LANs), wide-area networks (WANs), Opens System Interconnection (OSI) models, cabling, cabling tools, ethernet, Internet Protocol (IP) addressing, and network standards. Particular emphasis is given to the use of decision-making and problem-solving techniques to solve real world networking problems. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment.

141 BASIC ROUTING CISCO SEMESTER II (CISCO NETWORKING ACADEMY) 3.5 UNITS

Associate Degree Applicable

Prerequisite: CIS 140

Lecture: Minimum 48 hours per semester Laboratory: Minimum 24 hours per semester

Semester II of the Cisco Certified Network Associate (CCNA) exam preparation program. This course is designed to teach students both current and emerging networking technologies and will help prepare them for employment or further education and training in the computer-networking field. Instruction includes, but is not limited to, Opens System Interconnection (OSI) models, LANs, WANs, Transmission Control Protocol/Internet Protocol (TCP/ IP), routers, router configuration, routing and routing protocols, internetwork open system (IOS) images and network troubleshooting. Particular emphasis is given to understanding the nature of and components of networks that make up LANs, WANs and the Internet. Students will become familiar with the use of command protocols that are used when configuring networks and will learn how to troubleshoot a 5-router topology.

142 FUNDAMENTALS OF LANS CISCO SEMESTER III (CISCO NETWORKING ACADEMY) 3.5 UNITS

Associate Degree Applicable

Prerequisite: CIS 141

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 24 hours per semester

Semester III of the Cisco Certified Network Associate (CCNA) exam preparation program. This course is designed to teach students both current and emerging networking technologies and will help prepare them for employment or further education and training in the computer-networking field. Includes a Threaded Case Study (TCS), which involves a school district that want to upgrade its networking system. Instruction includes, but is not limited to: a review of the OSI reference model, a study of the OSI layer function, LANs, Ethernet and virtual LANs (VLANs), LAN design, interior gateway routing protocol (IGRP), access control lists (ACLs), Novell Internet Packet Exchange (IPX), and network management. Particular emphasis is given to students being able to demonstrate the ability to apply Semester I and II concepts to a network and to be able to explain how and why a particular strategy is employed. In addition, the students will learn appropriate methodologies for managing networks, with emphasis placed on clear and adequate documentation of the Network.

143 FUNDAMENTALS OF WANS CISCO SEMESTER IV (CISCO NETWORKING ACADEMY) 3.5 UNITS

Associate Degree Applicable Prerequisite: CIS 142

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 24 hours per semester

Semester IV of the Cisco Certified Network Associate (CCNA) exam preparation program. This course is designed to teach students both current and emerging networking technologies and will help prepare them for employment or further education and training in the computer-networking field. In this semester, student's continue to work with the Threaded Case Study (TCS), which involves a school district that want to upgrade its networking system. Instruction, includes, but is not limited to, a review of local area network (LAN) switching, virtual LANs, LAN design, routing protocols, access lists, wide area networks (WANs), the OSI reference model, point-to-point protocols (PPPs), integrated services digital network (ISDN), dial-on-demand routing (DDR), frame relays and network managements. Particular emphasis is given to students being able to demonstrate the ability to apply Semesters I, II and III concepts to a network and to be able to explain how and why a particular strategy is employed. In addition, the students will prepare for the CCNA exam and have the option to prepare for the Network+ Certification exam.

144 ADVANCED ROUTING-LANS CISCO SEMESTER V (CISCO NETWORKING ACADEMY) 3.5 UNITS

Associate Degree Applicable Prerequisite: CIS 143

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 24 hours per semester

One of four courses in the Cisco Certified Network Professional (CCNP) certification curriculum. CCNP Semester V focuses on advanced routing and teaches students how to install, configure and manage local and wide area networks and for medium to large networks. Upon completion of this course, students will be able to select and implement the appropriated Cisco IOS services required to build a scalable routed network. Instruction, includes, but is not limited to, selecting and configuring scalable IP addresses, implementing technologies to redistribute and support multiple, advanced, IP routing protocols such as OSPF, EIGRP and BGP, configuring access lists, and designing and testing edge router connectivity into a BGP network. This course is designed to help prepare students for the CCNP Advanced Routing exam.

145 ADVANCED WANS-CISCO SEMESTER VI (CISCO NETWORKING ACADEMY) 3.5 UNITS

Associate Degree Applicable

Prerequisite: CIS 144

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 24 hours per semester

One of four courses in the Cisco Certified Network Professional (CCNP) certification curriculum. CCNP Semester VI focuses on Remote Access and teaches students how to install and configure remote access links for medium to large networks. Upon completion of this course, students will be able to select and implement the appropriated Cisco IOS services required to implement any one of several remote access options. Instruction, includes, but is not limited to, configuring asynchronous connections, Point-topoint protocol (PPP) architecture, PPP protocol, callback, and compression, ISDN architecture, protocol layers, BRI and DDR, and configuring x.25, Frame Relay, and AAA. This course is designed to help prepare students for the CCNP Remote Access exam.

146 LAN SWITCHING - CISCO SEMESTER VII (CISCO NETWORKING ACADEMY) 3.5 UNITS

Associate Degree Applicable

Prerequisite: CIS 144

Lecture: Minimum 48 hours per semester Laboratory: Minimum 24 hours per semester

One of four courses in the Cisco Certified Network Professional (CCNP) certification curriculum. CCNP Semester VII focuses on the technologies required to build campus networks using multilayer switching technologies over high speed Ethernet. This course includes both routing and switching concepts, covering both Layer 2 and Layer 3 technologies. Upon completion of this course, students will be able to implement the multiplayer switching. Instruction, includes, but is not limited to, fast Ethernet, gigabit Ethernet, VLAN basics, types, identification, and trunking protocol, Spanning Tree Protocol, MLS processes, and configuration, and Multicasting protocols, routing, and tasks. This course is designed to help prepare the students for the CCNP Switching exam.

147 NETWORK TROUBLESHOOTING-CISCO SEMESTER VIII (CISCO NETWORKING ACADEMY) 3.5 UNITS

Associate Degree Applicable

Prerequisite: CIS 144

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 24 hours per semester

One of four courses in the Cisco Certified Network Professional (CCNP) certification curriculum. CCNP Semester VIII focuses on developing the advanced skills necessary for successfully troubleshooting Cisco routers and Catalyst switches. Students are taught how to baseline and troubleshoot an environment using Cisco routers and switches for multi-protocol client hosts and servers connected with: Ethernet, Fast Ethernet, Token Ring, Serial, Frame Relay, and/or ISDN BRI. Instruction, includes, but is not limited to, OSI Layers 1, 2, and 3, TCP/IP, LAN switching, VLANs, Frame Relay, ISDN, Appletalk, Novell, IEGRP, OSPF, BGP. This course is designed to help prepare students for the CCNP Support exam.

150 NETWORKING ESSENTIALS WITH TCP/IP 3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: CIS 101 and CIS 109 Lecture: Minimum 48 hours per semester

A hands-on course covering basic computer networking and TCP/ IP technology. Certification type material will be presented in this course enabling students to understand the material as well as help prepare them to complete the certification exams. Topics include network components, network configuration, network troubleshooting, and TCP/IP. Includes hands-on experience with a computer network, network software, and TCP/IP configurations as well as provides the foundation necessary for students to sit for industry certification exams.

151 NETWORK CLIENT ADMINISTRATION 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: CIS 150

Lecture: Minimum 48 hours per semester A hands-on course covering basic computer network client administration technology. Certification type material will be pre-

administration technology. Certification type material will be presented in this course enabling students to understand the material as well as help prepare them to complete the certification exams. Topics include using, administrating, deploying, and troubleshooting network client software, and TCP/IP. Includes hands-on experience with a computer network, network client software, and TCP/IP configurations as well as provides the fundamental foundation in preparation for industry certification.

152 NETWORK SERVER ADMINISTRATION 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None Departmental Recommendation: CIS 150

Lecture: Minimum 48 hours per semester

A hands-on course covering basic computer network Server administration technology. Certification type material will be presented in this course enabling students to understand the material as well as help prepare them to complete the certification exams. Topics include using, administrating, deploying, and troubleshooting network Server software, and TCP/IP. Includes handson experience with a computer network, network Server software, and TCP/IP configurations as well as provides the fundamental foundation in preparation for industry certification.

160 AUTHORING ACCESSIBLE WEB PAGES 2 UNITS Associate Degree Applicable

Prerequisite: CIS 111

Lecture: Minimum 32 hours per semester

This course provides additional expertise to students interested in furthering their skills in web page design and web site management by improving their skill set to include the design of web pages and sites accessible to individuals with disabilities. Students will develop a thorough understanding of the American's with Disabilities Act (ADA) and how the law pertains to web page/site development. Familiarization and use of tools, techniques and strategies that are used to comply with Section 508 of the ADA are the focus of the course.

161 WEB DESIGN AND PROGRAMMING USING DREAMWEAVER 2 UNITS

Associate Degree Applicable

Prerequisite: CIS 111

Lecture: Minimum 32 hours per semester

In depth study of web site design and programming using Dreamweaver. Students will design, create, publish and maintain web sites using Dreamweaver.

163 INTRODUCTION TO PHOTOSHOP 1.5 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 24 hours per semester

Design, creation, and manipulation of original and existing images and photographs using PhotoShop.

168 E-COMMERCE PROGRAMMING AND DESIGN

3 UNITS

3 UNITS

3 UNITS

CSU, Associate Degree Applicable Prerequisite: CIS 111

Lecture: Minimum 48 hours per semester

Introduction to E-Commerce site design and programming. Includes site development, debugging, and implementation of programs to enhance E-Commerce sites. Course topics will include: Client-side and Server-side scripts, ASP and database integration.

171 INTRODUCTION TO ROBOTICS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Introduction to robotic technology including the history, terminology, components and operation of robotic systems. Includes an overview and creation of robotics using selected software. Includes program development using a high-level language. Discusses the impact of robotics in society and the work place. No previous computer background required.

190A WEB MASTER INTERNSHIP

Associate Degree Applicable Prerequisite: CIS 111

Lecture: Minimum 8 hours per semester Field: Minimum 200 hours per semester

A one-semester course offering hands-on experience in Web page design and web site management. This course will provide additional expertise to students interested in furthering their skills in web page design and web site management by exposing them to authentic product development, and coaching by a professional mentor in the field.

190B NETWORK ADMINISTRATION INTERNSHIP

3 UNITS

Associate Degree Applicable Prerequisites: CIS 130 and CIS 150 Lecture: Minimum 8 hours per semester Field: Minimum 200 hours per semester

A one-semester course offering hands-on experience in network implementation, design, setup, and administration. This course will provide additional expertise to students interested in furthering their skills in network administration by exposing them to network planning, development, wiring, implementation, maintenance and coaching by a professional mentor in the field.

190C HARDWARE TECHNICIAN INTERNSHIP 3 UNITS

Associate Degree Applicable

Prerequisite: CIS 130 Lecture: Minimum 8 hours per semester

Field: Minimum 200 hours per semester

A one-semester course offering hands-on experience in computer hardware maintenance and user support. This course will offer further expertise to students interested in furthering their skills in hardware and end-user support by exposing them to authentic support scenarios, and coaching by a professional in the field.

198 COMPUTER INFORMATION SYSTEMS WORK EXPERIENCE 2 - 4 UNITS

CSU*, Associate Degree Applicable

Prerequisite: Enrolled in Computer Information Systems occupational program and working at a job directly related to student's major

Corequisite: Enrolled in at least 7 units, including this Work Experience course

Work Experience: 150-300 hours Paid Employment 120-240 hours Unpaid Employment

Integration of classroom instruction with practical on-the-job experience coordinated with the program of study and related to appropriate occupational goals.

203 ADVANCED VISUAL BASIC 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: CIS 103

Lecture: Minimum 48 hours per semester

Advanced Visual Basic concepts and methods as applied to the creation and maintenance of both single-user and client-server databases. Includes writing, debugging, and executing student created applications to solve both general purpose, and business database problems. Course also includes using SQL (Structured Query Language). ADO (Active X Data Objects), UDA (Universal Data Access), and using Windows API (Application Programming Interface).

250 EXPLORING THE INFORMATION SUPERHIGHWAY 1.5 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 24 hours per semester

Familiarization, use and customization of software tools that allow exploration and publication of information on the Internet. This includes Electronic Mail, the World Wide Web and USENET news group. Transfers to all CSU systems and is an elective for Liberal Studies/Education students who are transferring to the CSUSB seeking a teacher credential.

255 INTRODUCTION TO COMPUTER TECHNOLOGY FOR EDUCATORS 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 32 hours per semester

Laboratory: Minimum 48 hours per semester

Introduction to computer operations, terminology and components. Exploring technology and its instructional potential. Looks at computers and social issues, ethics and equity in education. Hands-on use of computers for basic understanding and application of database, word processing, desktop publishing, spreadsheets, visual aids, and use of graphics. No programming language required and no computer experience required. Required for all Liberal Studies/Education students who are transferring to California State University San Bernardino.

916X10 LABORATORY FOR COMPUTER INFORMATION SYSTEMS

Not Applicable to Associate Degree *Prerequisite: None*

Corequisite: Currently enrolled in a Computer Information Systems course

Laboratory: Variable hours

Open-entry, open-exit computer laboratory to support the objectives of courses in Computer Information Systems. This course may be taken ten times.

Economics (ECON)

Department: Department Head: Faculty: Social Sciences Mario Perez, M.A. Farhad Mansourian, M.A.

O UNIT

ASSOCIATE OF ARTS DEGREE ECONOMICS

REQUIRED COURSES:		UNITS
ECON 100	Introduction to Economics	3
ECON 200	Principles of Macroeconomics	3
ECON 201	Principles of Microeconomics	3
ENGL 101	Freshman Composition	4
MATH 090	Elementary Algebra	4
MATH 108		4
	TOTALUNITS	21

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 INTRODUCTION TO ECONOMICS 3 UNITS

UC*, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: ENGL 101 and MATH 952 Lecture: Minimum 48 hours per semester

A general education course emphasizing economic analysis applied to issues and problems facing the U.S. economy. Problems are analyzed with the elementary tools of economics as a way of evaluating alternative choices with respect to actual or hypothetical courses of action. Topics covered include supply and demand, market structures, inflation, unemployment, fiscal policy, monetary policy and international trade. * No UC credit granted if taken after ECON 200 OR ECON 201.

200 PRINCIPLES OF MACROECONOMICS 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Eligibility for ENGL 101, eligibility for MATH 090 or higher

Lecture: Minimum 48 hours per semester

Introduction to the basic mechanisms of macroeconomics, including key underlying concepts, theories and institutions such as national income accounting, the Classical and the Keynesian theories, the Federal Reserve System and commercial banking. An examination of various contemporary economic growth, unemployment, inflation, and budget deficit are also presented. (CAN ECON 2)

201 PRINCIPLES OF MICROECONOMICS 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Eligibility for ENGL 101, eligibility for MATH 090 or higher

Lecture: Minimum 48 hours per semester

An introduction to economic principles that govern production, exchange, distribution and consumption in a capitalist economy. Topics covered include supply and demand, consumer theory, production theory, and price formation in competitive and noncompetitive markets, theory of comparative advantage and international trade. Issues such as monopoly, public goods, unequal income distribution, and environmental problems are also studied in this course. (CANECON4)

EDUCATION (EDU)

Department: Department Head: Faculty: Child Development and Education Jean Searle-Grassick, M.A. JoAnn Jones, M.Ed. Meridyth McLaren, M.S. Jean Searle-Grassick, M.A.

200 SOCIAL STUDIES FOR THE SCHOOL AGE CHILD 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: Acceptance into program Lecture: Minimum 32 hours per semester Laboratory: Minimum 48 hours per semester

Introduction to social studies curriculum and methods of instruction for the school age child. Overview of social studies in a diverse society. Includes designing instruction and meeting academic needs of children. 48 hours of lab in an elementary school setting required. This course transfers to CSU and is required for the Liberal Studies/Education program at CSUSB.

290 INTRODUCTION TO EDUCATION 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: CD 105

Lecture: Minimum 48 hours per semester

This course is an introduction to the field of education. It is designed to familiarize students with the broad aspects of the profession, philosophy, and principles of teaching school age children. This course transfers to CSU and is required for the Liberal Studies/Education program at CSUSB.

Emergency Medical Services (ems)

Department: Department Head: Faculty: Emergency Services James Holbrook, Ed.D. Sandra Andrews, A.S. Kathy Crow, B.V.E. James Holbrook, Ed.D. Gary Reese, A.S. Daniel Word, A.S. Frances White, M.A.

Liaison Counselor:

ASSOCIATE OF SCIENCE DEGREE EMERGENCY MEDICAL SERVICES

REQUIRED COURSES:

UNITS

Consult with your counselor to develop an appropriate course of study.

EMS 150	Patient Assessment for Paramedics	3
EMS 151	Introduction to Emergency Medical	2
	Services	
EMS 152	Cardiology for the EMT-Paramedic	4
EMS 153	Pharmacology for the EMT-	3
	Paramedic	
EMS 154	Emergency Medical Services Theory	8
EMS 155	Skills Development for Paramedics	3
EMS 156	Clinical Externship for the Paramedic	2
EMS 157	Field Externship for the Paramedic	7.5
	TOTAL ÛNITS	32.5

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

EMERGENCY MEDICAL TECHNICIAN – I CERTIFICATE

The objective of this certificate is to train students to perform basic life support in the prehospital setting. Successful completion of the certificate program identifies the student has met the educational requirements as an Emergency Medical Technician. This is a state certificate program.

Admission: Open to all students who meet the age and physical requirements. Registration is limited to class size restrictions.

REQUIRED COURSE

EMS 020	Emergency Medical	6.0
	Technician – I	
	TOTAL	6.0

EMERGENCY MEDICAL TECHNICIAN -PARAMEDIC CERTIFICATE

The objective of this certificate is to train students with the necessary cognitive, psychomotor, and affective behaviors to provide advanced life support in the prehospital setting and to provide the necessary course work to be licensed in the state of California. Completion of the certificate program will prepare the students for entry-level employment as an Emergency Medical Technician – Paramedic and other occupations requiring Paramedic level license.

ENTRANCE REQUIREMENTS

- 1. Current, CA EMT-Basic Certification;
- 2. Minimum of six months full-time experience or 1000 hours of part-time EMS experience;
- 3. ANAT 101 or ANAT 150 and ANAT 151 or CSU transferable equivalent;
- 4. High School diploma or GED;
- 5. Current negative TB test within one year or chest x-ray within two years;
- 6. Completion of Hepatitis B immunization series or titer showing immunity;
- 7. Rubella titer showing immunity or proof of MMR immunization.

ENTRANCE COMPETENCIES

- 1. Reading level of 12th grade or higher;
- 2. Math proficiency level of 10th grade or higher;
- 3. Written EMT-basic competency of 80 percent or higher;
- 4. Written anatomy and physiology competency of 80 percent or higher;
- 5. Oral judgment of simulated field situations of 80 percent or higher.
- 6. Eligible to be licensed/accredited by state and local EMS agency.

Completion of the following 32.5 units qualifies the student for	
the Emergency Medical Technician - Paramedic Certificate.	

REQUIRED COURSES

EMS 150	Patient Assessment for Paramedics	3.0
EMS 151	Introduction to Emergency Medical Services – Paramedic	2.0
EMS 152	Cardiology for the EMT – Paramedic	4.0
EMS 153	Pharmacology for the EMT – Paramedic	3.0
EMS 154	Emergency Medical Services Theory	8.0
EMS 155	Skills Development for Paramedics	3.0
EMS 156	Clinical Externship for the Paramedic	2.0
EMS 157	Field Externship for the Paramedic	7.5
	TOTAL	32.5

MOBILE INTENSIVE CARE NURSE CERTIFICATE

Admissions: Open to students possessing a current California Registered Nurse License who have completed the following entrance requirements.

Completion of the following 2.25 units qualifies the student for the Mobile Intensive Care Nurses Certificate. Contact the Emergency Medical Services Department for application materials.

ENTRANCE REQUIREMENTS

- 1. EMS 110, Advanced Cardiac Life Support Provider (ACLS) or have a current ACLS card;
- 2. One year experience as a registered nurse.
- 3. Have 800 hours experience as a registered nurse in the Emergency Department;
- 4. Proof of a cardiac dysrhythmia course;
- 5. Current employment in a base station hospital in San Bernardino or Riverside County;
- 6. Ability to complete a written screening examination with 80 percent accuracy.

REQUIRED COURSE

EMS	103	Mobile Intensive Care Nurse	2.25
		TOTAL	2.25

020 EMERGENCY MEDICAL TECHNICIAN - I 6 UNITS

Associate Degree Applicable

Prerequisite: Must be 18 years of age as required by Title 22 of the Health and Safety Code

Departmental Recommendations: Good dexterity and coordination abilities; the ability to work in small areas, in different positions and at times on the ground or floor; good physical condition with the ability to lift up to 150 pounds

Lecture: Minimum 64 hours per semester

Laboratory: Minimum 64 hours per semester

Clinic: Minimum 16 hours per semester

Field: Minimum 24 hours per semester

Instruction in all facets of basic life support measures, CPR, and the use of appropriate emergency medical equipment and supplies. Stresses hands-on emergency medical skills proficiency needed to enhance the EMS Delivery System in the field. Includes OSHA approved Hazardous Materials Awareness Level, Blood Borne Pathogens for Health Care Workers, state mandated SIDS Education and an introduction to Pharmacology for the EMT-I.

030 EMERGENCY DEPARTMENT TECHNICIAN

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4.25 UNITS
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Associate Degree Applicable

Prerequisite: None Corequisite: FIRET 903

Lecture: Minimum 44 hours per semester

Laboratory: Minimum 44 hours per semester

Clinic: Minimum 40 hours per semester.

Instructions in all facets of basic life support measures, CPR, and the use of appropriate clinical emergency equipment and supplies. Stresses hands-on skills proficiency in assisting the physician with suturing, sterile set-up of trays, application of plaster and other types of splints. Includes confidentiality, professionalism, including a good work ethic. Introduces emergency equipment used in pre-hospital care and how it impacts care in the emergency department.

039 OUTDOOR EMERGENCY CARE 5.75 UNITS

Associate Degree Applicable

Prerequisite: None Lecture: Minimum 80 hours per semester

Laboratory: Minimum 40 hours per semester

Comprehensive emergency care training applied to the outdoor environment. Covers environmental effects on humans, patient assessment, respiratory and circulatory impairment, bone and joint injuries, and ski injuries. Complies with National Ski Patrol training requirements for Ski Patrol candidates. Offered for Credit or No Credit only.

043X20 SKI PATROL - BASIC PATROL TRAINING .5 - 2.50 UNITS

Associate Degree Applicable

Prerequisite: Must pass a safety skiing and ski proficiency test the first day of class

Departmental Recommendation: EMS 039

Laboratory: Minimum 30-120 hours per semester

Classroom and ski slope training necessary to provide emergency medical care to victims of accidents or sudden illness at a ski resort or cross country facility. Offered for Credit or No Credit only.

060 EMT-B FIELD PRACTICUM

7.25 UNITS

Associate Degree Applicable

Prerequisite: EMS 020; Must be pre-selected into the

EMT-EMT-P, A.S. Degree Program

Corequisite: EMS 105

Lecture: Minimum 16 hours per semester

Field: Minimum 500 hours per semester

Coordination of basic emergency medical technician training on a field unit with a mentor; opportunity to observe and assist in emergency medical intervention in traumatic and medical out of hospital emergencies. Provides the Emergency Medical Technician-B the field experience necessary to apply to the paramedic program.

090A-ZX3 SELECTED TOPICS IN EMERGENCY MEDICAL SERVICES .25 - 4 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 1-64 hours per semester and/or Laboratory: Minimum 2-96 hours per semester and/or Clinic/Field: Minimum 5-240 hours per semester

Current information on selected topics for the continuing education of Mobile Intensive Care Nurses and/or Paramedics; topics include cardiology, medical trauma, pharmacology, basic paramedic sciences, pediatrics, obstetrics, medical, surgical, and psychiatric problems. This course may be taken three times.

091X3 CONTINUING EDUCATION FOR THE HEALTH PROFESSIONAL .25 - 4 UNITS

Associate Degree Applicable

Prerequisite: Current EMT-P or MICN Certificate Lecture: Minimum 1-64 hours per semester and/or Laboratory: Minimum 2-96 hours per semester and/or Clinic/Field: Minimum 5-240 hours per semester

Current information on selected topics for the continuing education of Paramedics and Mobile Intensive Care Nurses (MICN); topics include cardiology, medical trauma, pharmacology, basic paramedic sciences, pediatrics, obstetrics, medical, surgical, and psychiatric problems. This course may be taken three times.

103 MOBILE INTENSIVE CARE NURSE 2.25 UNITS Associate Decreasing Applicable 2.25 UNITS

Associate Degree Applicable

Prerequisites: As required by San Bernardino and Riverside County Emergency Medical Services: A current California R.N. license, one year experience as a registered nurse, 800 hours experience as a nurse in the emergency department, current ACLS certification, proof of cardiac dysrhythmia course, current employment in a base station hospital in San Bernardino, Riverside, Inyo, or Mono county and the ability to complete a written screening examination with 80 percent accuracy

Lecture: Minimum 20 hours per semester Laboratory: Minimum 20 hours per semester

Clinic: Minimum 16 hours per semester

Field: Minimum 16 hours per semester

Orientation to prehospital advanced care protocols for San Bernardino, Inyo, Mono and Riverside counties and practice giving direction to prehospital care providers via one way or two way radio communication. Information on the roles and responsibilities of the mobile intensive care nurse. Offered for Credit or No Credit only.

105 ASSESSMENT OF THE MEDICAL AND TRAUMA PATIENT 2.25 UNITS

Associate Degree Applicable Prerequisite: None Departmental Recommendation: EMT Certification Lecture: Minimum 24 hours per semester

Laboratory: Minimum 40 hours per semester

Instruction in the medical and trauma patient assessment geared towards the EMT-Basic and the fundamentals of proper documentation.

110X20 ADVANCED CARDIAC LIFE SUPPORT-PROVIDER 1 UNIT

Associate Degree Applicable

Prerequisite: EMS 910X20 and must be a MD, RN, EMT-P, RT or DDS (Must hold a current certificate in Basic Life Support from American Red Cross or American Heart Association)

Lecture: Minimum 12 hours per semester

Laboratory: Minimum 12 hours per semester

Improvement of the emergency Advanced Life Support skills of professional medical and paramedical personnel. This course may be taken twenty times.

112X20 ADVANCED CARDIAC LIFE SUPPORT-INSTRUCTOR 1 UNIT

Associate Degree Applicable

Prerequisite: EMS 110X20 Must be 18 years of age

Musi de 18 years of age

Lecture: Minimum 14 hours per semester

Laboratory: Minimum 6 hours per semester

Instruction in the knowledge and skills essential to train qualified instructors to teach Advanced Life Support skills to the medical, nursing and paramedical community. This course may be taken twenty times.

116X20PEDIATRIC CPR, FIRST AID AND SAFETY
FOR CHILDREN2 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 24 hours per semester

Laboratory: Minimum 24 hours per semester

Certification in pediatric CPR, pediatric first aid, prevention of the spread of infectious disease, immunizations, child safety, and injury prevention. Meets community and state licensing recommendations for child care workers. This course is also offered as CD 116X20. This course may be taken twenty times.

150 PATIENT ASSESSMENT FOR PARAMEDICS 3 UNITS Associate Degree Applicable

Prerequisite: Admission into the EMT-Paramedic Program Lecture: Minimum 48 hours per semester

Overview of pre-hospital patient assessment and pathophysiology for the paramedic. This course provides the foundational knowledge and skills to effectively assess and treat patients in the pre-hospital setting. The skills will be used to make effective clinical care decisions.

151 INTRODUCTION TO EMERGENCY MEDICAL SERVICES - PARAMEDIC 2 UNITS

Associate Degree Applicable

Prerequisite: Admission into the EMT-Paramedic Program Corequisites: EMS 152, EMS 153

Lecture: Minimum 32 hours per semester

Overview of paramedicine, the ethics of patient care management, and the laws and policies of emergency services, including the relationship between the field providers and other health care professionals, the patient-family response to emergency care, and verbal and nonverbal behaviors and communications related to the delivery of emergency medical services.

152 CARDIOLOGY FOR THE EMT-PARAMEDIC 4 UNITS

Associate Degree Applicable

Prerequisite: Admission into the EMT-Paramedic Program Corequisites: EMS 151, EMS 153, EMS 154, EMS 155 Lecture: Minimum 60 hours per semester Laboratory: Minimum 12 hours per semester

Basic cardiology and cardiac electrophysiology for the paramedic. This course will review basic pertinent anatomy and physiology, recognition and treatment of cardiovascular disorders.

153 PHARMACOLOGY FOR THE EMT-PARAMEDIC 3 UNITS

Associate Degree Applicable

Prerequisite: Admission into the EMT-Paramedic Program Corequisites: EMS 151, EMS 152, EMS 154, EMS 155 Lecture: Minimum 48 hours per semester

Basic pharmacology for the paramedic, including the administration of medications, and drug therapy, drug actions and interactions, and basic physiology.

154 EMERGENCY MEDICAL SERVICES THEORY -PARAMEDIC 8 UNITS

Associate Degree Applicable

Prerequisite: Admission into the EMT-Paramedic Program Corequisites: EMS 151, EMS 152, EMS 153, EMS 155 Lecture: Minimum 128 hours per semester

Studies in the theory and practice of the diagnosis and treatment of trauma and medical emergencies; emphasis on the pathophysiology of disease processes as the basis for effective initial emergency management.

155 SKILLS DEVELOPMENT FOR PARAMEDICS

3 UNITS

Associate Degree Applicable Prerequisite: Admission into the EMT-Paramedic Program Corequisites: EMS 151, EMS 152, EMS 153, EMS 154 Laboratory: Minimum 120 hours per semester

Paramedic skills and the equipment used in the treatment of prehospital advanced life support. This course will enhance the student's knowledge of and ability to treat the various traumatic and/or medical emergencies in the prehospital setting.

156 CLINICAL EXTERNSHIP FOR THE PARAMEDIC 2 UNITS

Associate Degree Applicable

Prerequisites: EMS 151, EMS 152, EMS 153, EMS 154, EMS 155

Clinic: Minimum 164 hours per semester

Coordination of advanced paramedic training within the hospital setting. Opportunity to direct and engage in emergency intervention in traumatic and medical emergencies. This portion of the program will be in a clinical setting in San Bernardino or Riverside County. (This course fulfills the requirements of Title 22 of the Health and Safety Code for paramedic clinical internship).

157 FIELD EXTERNSHIP FOR THE PARAMEDIC

7.5 UNITS

Associate Degree Applicable Prerequisite: EMS 156

Field: Minimum 600 hours per semester

Coordination of advanced paramedic training with a field advanced life support unit. Opportunity to direct and engage in emergency intervention in traumatic and medical emergencies. This portion of the program will be on a paramedic unit in San Bernardino or Riverside County. (This course fulfills the requirements of Title 22 of the Health and Safety Code for paramedic field internship).

198EMERGENCY MEDICAL SERVICES
WORK EXPERIENCE2 - 4 UNITS

CSU*, Associate Degree Applicable

Prerequisite: Enrolled in Emergency Medical Services occupational program and working at a job directly related to student's major

Corequisite: Enrolled in at least 7 units, including this Work Experience course

Work Experience: 150-300 hours Paid Employment 120-240 hours Unpaid Employment

Integration of classroom instruction with practical on-the-job experience coordinated with the program of study and related to appropriate occupational goals.

200A-ZX3 SELECTED TOPICS IN EMERGENCY MEDICAL SERVICES .25 - 4 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 1-64 hours per semester and/or Laboratory: Minimum 2-96 hours per semester and/or

Clinic/Field: Minimum 5-240 hours per semester

Group investigation of a special topic in the area of pre-hospital emergency medicine, with special attention to large-scale crisis intervention. This course may be taken three times.

246X4 SPECIAL STUDIES IN EMERGENCY MEDICAL SERVICES 1 UNIT

Associate Degree Applicable

Prerequisite: None Independent Study: Minimum 48-192 hou

Independent Study: Minimum 48-192 hours per semester and/or Clinic: Minimum 80-320 hours per semester

Independent study for selected students in any area of emergency medical services, with projects determined jointly by student and instructor. This course may be taken four times.

290 TEACHING STRATEGIES

3.25 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 12 hours per semester

Combined lecture and lab course which offers instruction in teaching methodologies for the adult learner, including styles of learning, instructional methods, writing behavioral objectives, lesson plans and evaluation tools. It requires student teaching in the laboratory and classroom setting. This course is required for anyone wishing to teach in emergency medical services on or off campus.

901X20 PREVENTING DISEASE TRANSMISSION FOR EMERGENCY RESPONSE EMPLOYEES

.5 UNIT

Not Applicable to the Associate Degree Prerequisite: None

Lecture: Minimum 8 hours per semester

Instruction in disease transmission, infection control practices. Occupational exposure management and legal concerns. Designed for emergency medical services, hospital and public safety personnel. Offered for Credit or No Credit only. This course may be taken twenty times.

910X20 FUNDAMENTALS OF BASIC LIFE SUPPORT FOR HEALTHCARE PROVIDERS .5 UNIT

Not Applicable to the Associate Degree

Prerequisite: Be able to benefit from instruction

Must have physical abilities to perform required skills Lecture: Minimum 8 hours per semester

Laboratory: Minimum 8 hours per semester

Instruction in the skills of cardiopulmonary resuscitation for victims of all ages, including automated external defibrillator (AED) for those who provide health care to patients in a wide variety of settings, including in-hospital and out-of-hospital settings. Offered for Credit or No Credit only. This course may be taken twenty times.

912X20 BASIC CARDIAC LIFE SUPPORT – INSTRUCTOR .25 - .75 UNIT

Not Applicable to the Associate Degree Prerequisite: EMS 910X20

Lecture: Minimum 3-9 hours per semester

Laboratory: Minimum 3-9 hours per semester

Review and update of skills and knowledge necessary to perform Cardiopulmonary Resuscitation; techniques of teaching, including practice teaching. This course may be taken twenty times.

Not Applicable to the Associate Degree Prerequisite: EMS 912X20 Lecture: Minimum 3 hours per semester

Laboratory: Minimum 3 hours per semester

Provision of updated material for the Basic Life Support instructor; leads to recertification as designated by the American Heart Association. This course may be taken twenty times.

916X4 LABORATORY FOR EMERGENCY MEDICAL SERVICES 0 UNIT

Not Applicable to the Associate Degree

Prerequisite: None

Corequisite: Any Emergency Medical Services course Laboratory: Variable hours

Open-entry, open-exit computer laboratory to support the objectives and content of courses in Emergency Medical Services. This

921X20 EMERGENCY MEDICAL TECHNICIAN RECERTIFICATION 1 UNIT

Not Applicable to the Associate Degree

course may be taken four times.

Prerequisite: An EMT-B certification from any county or state in the United States current within the last 4 years or an

EMT-B National Registry certification current within the last 4 years

Lecture: Minimum 12 hours per semester Laboratory: Minimum 20 hours per semester

Review of all facets of basic life-support measures, CPR, automated external defibrillation, use of medical equipment and supplies, as well as instruction in new techniques and materials. Offered for Credit or No Credit only. This course may be taken twenty times.

923X20 ADVANCED CARDIAC LIFE SUPPORT – INSTRUCTOR (RECERTIFICATION) .25 UNIT

Not Applicable to the Associate Degree Prereauisite: EMS 110X20

Prerequisite: EMS 110X2

Lecture: Minimum 3 hours per semester

Laboratory: Minimum 3 hours per semester

Provision of updated material to the Advanced Cardiac Life Support instructor. Assessment of skills, new methods of presenting material, and a written test. This course may be taken twenty times.

931X20 ADVANCED CARDIAC LIFE SUPPORT – PROVIDER (RECERTIFICATION) .25 UNIT

Not Applicable to the Associate Degree Prerequisite: EMS 912X20

Lecture: Minimum 3 hours per semester

Laboratory: Minimum 3 hours per semester

Provision of updated material for the Advanced Life Support provider; leads to recertification as designated by the American Heart Association. This course may be taken twenty times.

932X20 SELECTED TOPICS IN EMERGENCY MEDICAL SERVICES-OUTDOOR EMERGENCY CARE REFRESHER "A" .5 UNIT

Not Applicable to the Associate Degree

Prerequisite: EMS 039

Lecture: Minimum 4 hours per semester Laboratory: Minimum 16 hours per semester

Laboratory: Minimum 10 nours per semester

Review of emergency care training applied to the outdoor environment. Covers environmental effects on humans, patient assessment, respiratory and circulatory impairment, bone and joint injuries and ski injuries. Complies with National Ski Patrol training requirements for Ski Patrol candidates. Offered for Credit or No Credit only. This course may be taken twenty times.

933X20 SELECTED TOPICS IN EMERGENCY MEDICAL SERVICES-OUTDOOR EMERGENCY CARE REFRESHER "B"

.5 UNIT

Not Applicable to the Associate Degree Prerequisite: EMS 039

Lecture: Minimum 4 hours per semester Laboratory: Minimum 16 hours per semester

Review of emergency care training applied to the outdoor environment. Covers environmental effects on humans, patient assessment, respiratory and circulatory impairment, bone and joint injuries, and ski injuries. Complies with National Ski Patrol training requirements for Ski Patrol candidates. Offered for Credit or No Credit only. This course may be taken twenty times.

934X20 SELECTED TOPICS IN EMERGENCY MEDICAL SERVICES-OUTDOOR EMERGENCY CARE REFRESHER "C" .5 UNIT

Not Applicable to the Associate Degree Prerequisite: EMS 039

Lecture: Minimum 4 hours per semester Laboratory: Minimum 16 hours per semester

Review of emergency care training applied to the outdoor environment. Covers environmental effects on humans, patient assessment, respiratory and circulatory impairment, bone and joint injuries, and ski injuries. Complies with National Ski Patrol training requirements for Ski Patrol candidates. Offered for Credit or No Credit only. This course may be taken twenty times.

ENGLISH (ENGL)

Department: Department Head: Faculty: Language Arts Mark Snowhite, M.A. Kris Acquistapace, M.Ed., M.A. Daniel Bahner, M.A. Jeremy Heist, M.A. Aaron Race, M.F.A. Bret Scaliter, M.A. Mark Snowhite, M.A.

ASSOCIATE OF ARTS DEGREE ENGLISH

REQUIRED COURSES:		UNITS
ENGL 101	Freshman Composition	4
ENGL 102	Intermediate Composition and	(4)
	Critical Thinking	
	OR	
ENGL152	Intermediate Composition and	(4)
	Literature	

Select six units from the following:

Select six u	nus jrom the jollowing:	
ENGL260	Survey of American Literature I	(3)
ENGL261	Survey of American Literature II	(3)
ENGL270	Survey of British Literature I*	(3)
ENGL271	Survey of British Literature II*	(3)
Select six a	dditional units from the following:	
ENGL 150	Classical Mythology	(3)
ENGL 155	Children's Literature	(3)
ENGL 160	Literature by Women	(3)
ENGL 163	Chicano Literature	(3)
ENGL170	The Film Experience	(3)
ENGL175	Literature and Religion of the Bible	(3)
ENGL232	Creative Writing	(3)
ENGL250	Fiction	(3)
ENGL260	Survey of American Literature I	(3)
ENGL261	Survey of American Literature II	(3)
ENGL270	Survey of British Literature I	(3)
ENGL271	Survey of British Literature II	(3)
ENGL275	Shakespeare	(3)
	TOTALUNITS	20

*Recommended for students planning on transferring to California State University, San Bernardino.

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

015 PREPARATION FOR COLLEGE WRITING 4 UNITS

Associate Degree Applicable

Prerequisite: ENGL 914 or a qualifying score on the placement test

Lecture: Minimum 64 hours per semester

Study of the fundamental skills necessary for effective writing, with emphasis on clarity, correctness, and appropriate style. Basic grammar and usage will also be covered.

4 UNITS

101 FRESHMAN COMPOSITION

UC, CSU, Associate Degree Applicable

Prerequisite: ENGL 015 with a grade of C or higher OR a passing score on an accepted placement test

Lecture: Minimum 64 hours per semester

Instruction in writing compositions from personal, reflective and argumentative perspectives. (CAN ENGL 2)

102 INTERMEDIATE COMPOSITION AND CRITICAL THINKING 4 UNITS

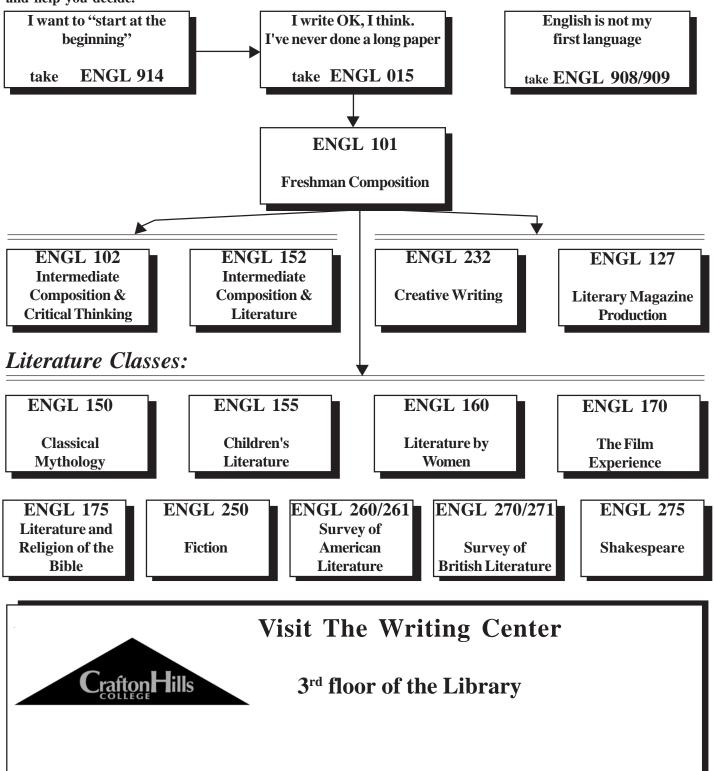
UC, CSU, Associate Degree Applicable Prerequisite: ENGL 101

Lecture: Minimum 64 hours per semester

Instruction in writing compositions reflecting critical thinking and employing rhetorical skills beyond those taught in ENGL 101, including summary, analysis, evaluation, rebuttal, and argument. Includes instruction in the analysis of argumentative prose, various rhetorical techniques, the principles of inductive and deductive reasoning, and the informal fallacies. Requires substantial analytical reading and writing.

Levels and Order of English Classes

The ability to think and reason and communicate using written language is an essential skill. There are several possible starting points for you to enter at the right level. Starting at the right class will let you move from class to class successfully and get to the point you need in the shortest amount of time. A Counselor can show you the skills needed for each class and help you decide.



127X4 LITERARY MAGAZINE PRODUCTION: THE SAND CANYON REVIEW **3 UNITS**

CSU, Associate Degree Applicable

Prerequisite: ENGL 101

Laboratory: Minimum 144 hours per semester

Production of the college literary magazine, including the study of the principles of short fiction, poetry, and drama, as well as the process of publishing, including selecting material, planning and executing format, defining and maintaining theme, developing design and layout, editing and desktop publishing. This course may be taken four times.

150 CLASSICAL MYTHOLOGY

3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: ENGL 015 OR a qualifying score on the placement test for English

Lecture: Minimum 48 hours per semester

Study of ancient Greek and Roman stories of gods, goddesses, heroes, and heroines as translated into English from the original sources. Special emphasis on the epics of the Trojan War by Homer.

INTERMEDIATE COMPOSITION AND LITERATURE 152 **4 UNITS**

UC, CSU, Associate Degree Applicable Prerequisite: ENGL 101

Lecture: Minimum 64 hours per semester

Study of fiction, poetry, and drama with emphasis on the fundamental principles of literary criticism and interpretation. Instruction in writing compositions about literature. (CAN ENGL 4)

155 CHILDREN'S LITERATURE

UC, CSU, Associate Degree Applicable

Prerequisite: ENGL 015 OR a qualifying score on the placement test for English

Lecture: Minimum 48 hours per semester

Study of literature written for children. Books discussed in the course are essentially books for children, but values common to all significant literature are emphasized.

160 LITERATURE BY WOMEN

3 UNITS

3 UNITS

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: ENGL 015 OR a qualifying score on the placement test for English

Lecture: Minimum 48 hours per semester

Survey and analysis of past and contemporary literature by women. Focuses on biographical and historical experiences of women as expressed in essays, poetry, fiction, and drama. Explores the depiction of women in historical and literary contexts as well as in art and film.

163 CHICANO LITERATURE

UC, CSU, Associate Degree Applicable

Prerequisite: ENGL 101

Lecture: Minimum 48 hours per semester

Study of the literature, plays, poetry, film, and lyrics representative of Chicano literature. This course includes written analyses.

170 THE FILM EXPERIENCE

3 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendation: ENGL 015 or a higher level composition course

Lecture: Minimum 48 hours per semester

Study of the basic elements of film art, including directing, acting, editing, screen writing, cinematography, set design, lighting, sound effects, and the musical score. Includes instruction in the critical analysis of feature films.

175 LITERATURE AND RELIGION OF THE BIBLE

3 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Study of the English Bible as literature and as religion. Includes the examination of the types of literature found in the Bible, and the historical and religious context in which the literature was developed. Provides an extensive reading of the two testaments. This course is also offered as RELIG 175.

232 CREATIVE WRITING

UC, CSU, Associate Degree Applicable Prerequisite: Eligiblity for ENGL 101

Lecture: Minimum 48 hours per semester

Study of the techniques of creative writing, with an emphasis on the improvement of the student's ability to write effectively within the framework of a literary genre - fiction, drama, or poetry. Students may concentrate on special interests.

250 FICTION

UC, CSU, Associate Degree Applicable Prerequsite: ENGL 101

Lecture: Minimum 48 hours per semester

Study of fiction as a literary genre through readings, in-class discussions, and analytical assignments. Emphasis will be on a particular type of fiction (See the current class schedule for the specific sub-genre.)

260 SURVEY OF AMERICAN LITERATURE I 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: ENGL 101

Lecture: Minimum 48 hours per semester

An analysis of representative literary works of significant American writers from the late fifteenth century through the Civil War that includes the study of the historical and social context of the literature as well as the lives of important writers.

261 SURVEY OF AMERICAN LITERATURE II 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: ENGL 101

Lecture: Minimum 48 hours per semester

An analysis of representative literary works of significant American writers since the Civil War through the present that includes the study of the historical and social context of the literature, and lives of important writers.

3 UNITS

3 UNITS

270 SURVEY OF BRITISH LITERATURE I 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: ENGL 101

Lecture: Minimum 48 hours per semester

Analysis of representative literary works of significant British writers from before the Norman Conquest through the eighteenth century that includes the study of the historical and social contexts of the literature as well as the lives of important writers.

271 SURVEY OF BRITISH LITERATURE II 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: ENGL 101

Lecture: Minimum 48 hours per semester

Analysis of representative literary works of significant British writers from the Romantic Period to the present that includes the study of the historical and social contexts of the literature as well as the lives of important writers.

275 SHAKESPEARE

UC, CSU, Associate Degree Applicable Prerequisite: ENGL 101

Lecture: Minimum 48 hours per semester

Study of the plays and poems of Shakespeare, as well as the cultural context in which the works were created. Analysis of the literature from both historical and contemporary perspectives.

901-902 VOCABULARY IMPROVEMENT 3 UNITS

Not Applicable to the Associate Degree

Prerequisite: None. Courses need not be taken in sequence Lecture: Minimum 48 hours per semester

Overview of the growth and structure of the English language, emphasizing development of skill in self-expression through vocabulary improvement.

908AB PATTERNS OF CONTEMPORARY ENGLISH 3 UNITS

Not Applicable to the Associate Degree Prerequisite: None

Lecture: Minimum 48 hours per semester

Study of basic patterns of standard spoken and written English for the student whose cultural background has equipped him or her with a language or language patterns other than standard English.

909AB PATTERNS OF CONTEMPORARY ENGLISH

3 UNITS

3 UNITS

Not Applicable to the Associate Degree Prerequisite: ENGL 908B with a grade of "C" or better. Courses must be taken in sequence

Lecture: Minimum 48 hours per semester

Study of the basic patterns of standard written English for the student whose cultural background has not provided him or her with the necessary skills to write standard English.

914 BASIC ENGLISH SKILLS

Not Applicable to the Associate Degree Prerequisite: None

Lecture: Minimum 64 hours per semester

Instruction in basic English grammar, including parts of speech, sentence construction, subjects, predicates, objects, verb tenses, spelling rules, vocabulary development, agreement, case, active voice, usage, capitalization, and proper punctuation. Includes instruction in the principles of writing effective paragraphs, including framing topic sentences, developing appropriate support, using transitions, and citing texts.

916X4 WRITING LABORATORY

Not Applicable to the Associate Degree Prerequisite: None

Laboratory: Minimum 48 hours per semester

Diagnosis of specific weaknesses in basic writing and development of an individualized program to help students overcome their problems. This course may be taken four times.

$F_{\text{IRE}} \text{ Technology (Firet)}$

Department:	
Department Head:	
Faculty:	
Liaison Counselor:	

Emergency Medical Services James Holbrook, Ed.D. John Koeper, B.A. Frances White, M.A.

ASSOCIATE OF SCIENCE DEGREE FIRE TECHNOLOGY

REQUIRED	COURSES:	UNITS
FIRET 100	Fire Protection Organization	3
FIRET 101	Fire Prevention Technology	3
FIRER 102	Fire Behavior and Combustion	3
FIRET 103	Fire Protection Equipment and	3
	Services	
FIRET 116	Building Construction for Fire	3
	Protection	
	And 5.5 Units from	
FIRET 087	Fire Investigation IA	2.5
FIRET 104	Fire Apparatus and Equipment	3
FIRET 106	Fire Hydraulics	3
FIRET 118	Wildland Fire Control	3
	TOTAL UNITS	20.5

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

4 UNITS

1 UNIT

CALIFORNIA FIRE OFFICER TRAINING CERTIFICATE

The objective of this certificate is to provide students with a wide range of cognitive, affective, and psychomotor skills necessary to become an effective Fire Officer.

Admissions: Open to all students. Registration is limited to class size restrictions.

Completion of the following 20 units may qualify the student to test for the position of First Line Fire Officer by applying to the California Fire Service Training and Education System through the California State Fire Marshal's office in Sacramento, California.

REQUIRED COURSES

FIRET 080	Fire Instructor 1A	2.5
FIRET 081	Fire Instructor 1B	2.5
FIRET 082	Fire Prevention 1A	2.5
FIRET 083	Fire Prevention 1B	2.5
FIRET 084	Fire Management 1	2.5
FIRET 085	Fire Command 1A	2.5
FIRET 086	Fire Command 1B	2.5
FIRET 087	Fire Investigation 1A	2.5
	TOTAL	20.0

FIRE INSPECTION ACADEMY CERTIFICATE

The objective of this certificate is to provide students with an introduction to fire prevention practices, human relation skills, inspection skills, knowledge of applicable codes and regulations, and a working knowledge of public education. Completion of this certificate program may lead to employment as an entry-level fire inspector or fire safety specialist in the public or private sectors.

Admissions: Open to all students. Registration is limited to class size restrictions.

Completion of the following 11 units with a grade of "C" or higher qualifies the student to apply for the Fire Inspection Academy Certificate.

RECOMMENDED COURSES

FIRET 100 FIRET 101	Fire Protection Organization Fire Prevention Technology	3.0 3.0		
REQUIRED COURSE				
FIRET 078	Fire Inspection Academy	11.0		

FIRET 078	Fire Inspection Academy	11.0
	TOTAL	11.0

FIREFIGHTER I BASIC TRAINING ACADEMY CERTIFICATE

The objective of this certificate is to develop the skills required for Firefighter I Certification and to develop the teamwork skills, attitudes and public service commitment necessary for employment in the fire service. Completion of this certificate may lead to entry-level employment as a firefighter in the public or private sectors. The Firefighter I Basic Training Academy is approved by the California State Fire Marshal's Office as an accredited Regional Training Center.

Admissions: Open to all students who have completed the prerequisite courses. Registration is limited to class size restrictions.

PREREQUISITES

PE/I 070X4	Fitness Evaluation	.25
FIRET 100	Fire Protection Organization	3.00
FIRET 102	Fire Prevention Technology	3.00
EMT-I	Certification or First Responder	0-6
	Certification	

Certification of Completion of a Crafton Hills College, Biddle or CPAT Agility Test within the past six months.

Completion of English, Reading, and MathPlacement Tests.

RECOMMENDED COURSES

ENGL 101	Freshman Composition	4.0
MATH 090	Elementary Algebra	4.0

Completion of the following 13.25 units with a "C" or higher qualifies the student to apply for the Firefighter I Basic Training Academy Certificate

REQUIRED COURSES

FIRET 049	Basic Firefighter Physical	.75
	Fitness	
FIRET 115	Firefighter I Basic Training	12.50
	Academy	
	TOTAL	13.25

049 BASIC FIREFIGHTER PHYSICAL FITNESS

.75 UNITS

Associate Degree Applicable Prerequisite: Acceptance into FIRET 115 Corequisite: FIRET 115

Laboratory: Minimum 40 hours per semester

Physical fitness exercise, teamwork, disciplined precision cadence drilling and preparation for the fire agility physical fitness testing requirement for fire academy cadets. Offered for Credit or No Credit only.

FIRET 060 A-ZX3 SELECTED TOPICS IN FIRE TECHNOLOGY .25 - 4 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 1-64 hours per semester

Laboratory: Minimum 2-96 hours per semester

Examination of current topics related to the fire service. Specific topics to be announced in the schedule of classes for the semester in which this course is offered. Offered for Credit or No Credit only. This course may be taken three times.

078 FIRE INSPECTION ACADEMY

11 UNITS

Associate Degree Applicable

Prerequisite: None **Departmental Recommendations: FIRET 100 and FIRET 101**

Lecture: Minimum 176 hours per semester Preparation of an entry-level fire inspector for conducting fire inspections in new and existing buildings, in the use of effective written and oral communications, and in effective public relations methods.

079 DRIVER/OPERATOR 1 ACADEMY

3 UNITS

Associate Degree Applicable

Prerequisite: Firefighting 1 Certification **Departmental Recommendation: FIRET 106** Lecture: Minimum 32 hours per semester

Laboratory: Minimum 48 hours per semester

Information on driver techniques for emergency vehicles and techniques of basic inspection and maintenance for emergency vehicles, including actual driving exercises under simulated emergency conditions. This is a State Certified course.

080 FIRE INSTRUCTOR 1A

2.5 UNITS

Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 40 hours per semester

Preparation for teaching fire service skills; development of course outlines, job breakdowns, behavioral objectives and lesson plans; study of occupational analysis, terms of instruction, teaching methods and the psychology of learning.

081 FIRE INSTRUCTOR 1B

2.5 UNITS

2.5 UNITS

2.5 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 40 hours per semester

Preparation for teaching technical fire service skills; technical lesson plans, supplementary instruction sheets, test planning sheets, and written and oral examinations; fundamentals of evaluation, lesson plan formats and the principles of effective instruction.

082 FIRE PREVENTION 1A

Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 40 hours per semester

Study of fire prevention; focus on code use, improvement, enforcement and fire cause; consideration of flammable liquid, gases, and solids, combustible dust and metals, explosive materials, properties of plastics, portable and fixed fire protection equipment. Successful completion of FIRET 082 and 083 fulfills the fire prevention requirements for State Officer certification.

083 FIRE PREVENTION 1B

Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 40 hours per semester

Continuation of the study of fire prevention; focus on building construction, flame spread classifications, fire doors, exiting standards, calculation of occupant loads, smoke proof enclosures, sprinkler system design, basic electric and its hazards, fixed extinguishing systems, fire alarm systems, and detection systems and devices. Successful completion of FIRET 082 and FIRET 083 fulfills the fire prevention requirements of State Officer certification.

084 FIRE MANAGEMENT 1

Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 40 hours per semester

Study of fire ground and fire department management; issues in management; external influences; decision making; stress; characteristics and source of goals; management by objectives; task analysis; motivation inventories; demotivators; productivity; management control; setting policy; organizational structures; delegation; principles of leadership; counseling; Equal Employment Opportunity guidelines; communication; handling disputes and grievances.

085 FIRE COMMAND 1A

Associate Degree Applicable

Prereauisite: None

Lecture: Minimum 40 hours per semester

Examination of fire command through the simulation of first-alarm structural fires, including the role of a command officer, the fire protection tree, building typology, experience/knowledge/synergistic effects, fire behavior, heat transfer, flashover assessment, command pressures, stress and distress, concepts of decision making, emergency levels, decision models, management styles, tactical operation modes, operational planning, principles of command, issuing orders, command placement, directing fire scene forces, operational control, fire ground performance standards, command and control components.

086 FIRE COMMAND 1B

Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 40 hours per semester

Examination of fire command through the simulation of emergencies involving hazardous materials; identification of hazardous materials; safety priorities; chemical hazard planning; hazardous materials legislation; responsibility for pollution; coordinating resources and agencies; use of the DOT Emergency Response Guide Book; protective clothing and equipment; using Chemtrec; shipping documents; decision making models for hazardous materials incidents; concept of alternatives; environmental conditions; decontamination; command posts and staging areas; containers; diking, sealing, and containment; evacuation procedures.

087 FIRE INVESTIGATION 1A

Associate Degree Applicable

2.5 UNITS

2.5 UNITS

Prerequisite: None

Lecture: Minimum 40 hours per semester

Study of the principles of fire behavior; building construction; point of fire origin determination; motives of the fire setter; accidental ignition sources; incendiary fire indicators; structure of fire investigation; vehicle fire investigation; fire fatalities; investigation tools and documentation techniques; report writing; evidence recognition, documentation, and preservation; legal aspects of fire investigation; explosives and incendiary devices; juvenile fire setters; wildland fire investigation.

2.5 UNITS

2.5 UNITS

088 FIRE INVESTIGATION 1B

Associate Degree Applicable Prerequisite: FIRET 087

Lecture: Minimum 40 hours per semester

Study of the principles of evidence collection and preservation, report writing, the juvenile firesetter, Penal Code, and other statutory provisions. Further develops principles learned in Fire Investigation 1A.

089 FIRE PREVENTION 1C

2.5 UNITS

3 UNITS

2.5 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 40 hours per semester

Principles of the basic hazards associated with flammable and combustible liquids and gases. Bulk storage, handling and transportation of gases and liquids.

090-097A-ZX3 SELECTED TOPICS IN FIRE TECHNOLOGY .25 - 4 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 1-64 hours per semester and/or Laboratory: Minimum 2-96 hours per semester and/or Clinic/Field: Minimum 5-240 hours per semester

Selected studies related to fire technology. Each semester the specific subject matter of the course will be announced in the schedule of classes. This course may be taken three times.

100 FIRE PROTECTION ORGANIZATION 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Eligibility for ENGL 101, eligibility for MATH 090 or higher

Lecture: Minimum 48 hours per semester

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 the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. This course is a prerequisite for the Firefighter I Basic Training Academy.

101 FIRE PREVENTION TECHNOLOGY

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Eligibility for ENGL 101, eligibility for MATH 090 or higher

Lecture: Minimum 48 hours per semester

Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with fire safety education and detection and suppression systems. Is one of three courses required before entrance into the Fire Academy.

102 FIRE BEHAVIOR AND COMBUSTION 3 UNITS

CSU, Associate Degree Applicable Prerequisite: FIRET 100

Departmental Recommendations: Eligibility for ENGL 101, eligibility for MATH 095 or higher

Lecture: Minimum 48 hours per semester

Theory and fundamentals of how and why fires start, spread, and are controlled. An in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques.

103 FIRE PROTECTION EQUIPMENT AND SYSTEMS

3 UNITS

CSU, Associate Degree Applicable

Prerequisite: FIRET 101

Departmental Recommendations: Eligibility for ENGL 101, eligibility for MATH 090 or higher

Lecture: Minimum 48 hours per semester

Information relating to the features of 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.

104 FIRE APPARATUS AND EQUIPMENT 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: FIRET 100

Departmental Recommendations: Eligibility for ENGL 101, eligibility for MATH 095 or higher

Lecture: Minimum 48 hours per semester

Study of fire apparatus design including mobile and fixed apparatus; a review of construction specifications and performance capabilities; the effective deployment, utilization and performance of equipment under emergency conditions.

106 FIRE HYDRAULICS

Associate Degree Applicable

Prerequisite: Completion of FIRET 100 or appropriate work experience

Lecture: Minimum 48 hours per semester

Review of basic mathematics, hydraulic laws, and formulas as applied to the fire service; application of formulas and mental calculation of hydraulic problems, water supply problems and underwriters' requirements for pumps.

109 INTRODUCTION TO HAZARDOUS MATERIALS

3 UNITS

3 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Basic information about the properties of hazardous materials and the methods that are most appropriate for handling various kinds of accidents that can occur during fixed facility or transportation emergencies.

111 PUBLIC EDUCATION OFFICER I

2.5 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 40 hours per semester

Basic components of public fire education and fire prevention, and human behavior in fire as required by the California State Fire Marshal's Office. Partially completes the requirements for Public Education Officer I State certification.

115 FIREFIGHTER I BASIC TRAINING ACADEMY

12.5 UNITS

CSU, Associate Degree Applicable

Prerequisite: Admission to the Academy Corequisite: FIRET 049 Departmental Recommendations: Eligibility for ENGL 101, eligibility for MATH 090 or higher

Lecture: Minimum 100 hours per semester

Laboratory: Minimum 308 hours per semester

The Crafton Hills College Fire Academy includes introduction to basic fire-fighting theory and skills, study of the characteristics and behavior of fire, hazardous materials response techniques, incident command principles and rescue techniques.

116 BUILDING CONSTRUCTION FOR FIRE PROTECTION 3 UNITS

CSU, Associate Degree Applicable

Prerequisites: FIRET 100, 101

Departmental Recommendations: Eligibility for ENGL 101, eligibility for MATH 090 or higher

Lecture: Minimum 48 hours per semester

Study of the components of building construction relating to fire safety, and the elements of construction and design of structures as they relate to building inspection, preplanning fire operation and operating at fires. Study of the development and evolution of building and fire codes.

118 WILDLAND FIRE CONTROL

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Study of the factors affecting wildland fire prevention, behavior, and control techniques.

121 VEHICLE RESCUE

2 UNITS

3 UNITS

Associate Degree Applicable Prerequisite: EMS 020

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 48 hours per semester

Study and practice of procedures of rescue of victims from vehicles, including preparation, response, assessment, hazard control, support operations, access, emergency care, disentanglement, removal, transfer, and operation termination.

149 BASIC INCIDENT COMMAND SYSTEM 1 UNIT

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 16 hours per semester

Study of interagency response to emergency situations at local, state, and federal levels; examination of systematic interagency activities, including such organizational concerns as operations, planning, logistics, and finance under a single or unified command system.

170 BASIC WILDLAND FIRE FIGHTING 2.5 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 40 hours per semester

Introduction to wildland fire suppression; overview of commonly used concepts and practices of fire fighting.

174 WILDLAND FIRE PREVENTION 2.5 UNITS

Associate Degree Applicable

Prerequisite: None Lecture: Minimum 40 hours per semester

Study of the theories of wildland fire prevention; inspection techniques, surveying and mapping procedures; recognition of fire and life hazards; engineering solutions; enforcing solutions; public relations and wildland fire prevention.

175 WILDLAND FIRE INVESTIGATION 2.5 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 40 hours per semester

Study of basic wildland fire investigation; instruction in determining fire causes and point of origin; study of investigative tools such as photography, interviewing techniques, and evidence collection; development of written and oral reporting skills.

176 WILDLAND FIRE BEHAVIOR 2.5 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 40 hours per semester

Study of the basic factors, principles, and terminology for fuels, topography, and weather; application of theory in simulated field situations.

177 TACTICS AND STRATEGIES OF WILDLAND FIRE CONTROL 4 UNITS

Associate Degree Applicable Prerequisite: None

Frerequisite: None Lecture: Minimum 36 hours per semester

Laboratory: Minimum 56 hours per semester

Field: 90 hours per semester

Examination of the principles of fire control through the use of manpower, equipment, and extinguishing agents in the classroom, laboratory and field.

180 OIL AND GAS FIRES 2.5

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 40 hours per semester

Study of the proper tactics and methods for response to oil and gas fires.

182 STRUCTURAL FIRES Associate Degree Applicable

2.5 UNITS

Prerequisite: None Lecture: Minimum 40 hours per semester Study of how building construction influences fire behavior.

183 AIRCRAFT ACCIDENTS 2.5 UNITS

Associate Degree Applicable Prerequisite: None Lecture: Minimum 40 hours per semester Study of the methods and tactics used in response to potential or active aircraft fire.

2.5 UNITS

198 FIRE TECHNOLOGY WORK EXPERIENCE 2 - 4 UNITS

CSU*, Associate Degree Applicable

Prerequisite: Enrolled in Fire Technology occupational program and working at a job directly related to student's major

Corequisite: Enrolled in at least 7 units, including this Work Experience course

Work Experience: 150-300 hours Paid Employment 120-240 hours Unpaid Employment

Integration of classroom instruction with practical on-the-job experience coordinated with the program of study and related to appropriate occupational goals.

202 FIRE COMPANY ORGANIZATION AND MANAGEMENT 3 UNITS Associate Degree Applicable

Prerequisite: FIRET 100 or appropriate work experience Lecture: Minimum 48 hours per semester

Review of fire department organization, fire company organization, the company officer's duties and responsibilities; study of leadership and supervision control, company personnel administration, company communications, company training, company fire prevention, company fire fighting, company records and reports, and problem solving.

203 FIRE COMPANY OFFICER'S ACADEMY 5 UNITS

Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: FIRET 084 Lecture: Minimum 80 hours per semester

A preparation of Fire Company Officers in managing a fire company, including motivation as a positive tool, stress management, group communications, problem solving, individual and group behavior, conflict resolution, risk management, officer liability, and a variety of situation simulations.

220-245A-ZX3 SELECTED TOPICS IN FIRE TECHNOLOGY .25 - 4 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 1-64 hours per semester and/or Laboratory: Minimum 2-96 hours per semester and/or Clinic/Field: Minimum 5-240 hours per semester

Selected topics related to emergency services. Each semester the specific subject matter of the course will be announced in the schedule of classes. This course may be taken three times.

250-263A-ZX3 SELECTED TOPICS IN FIRE TECHNOLOGY .25 - 4 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 1-64 hours per semester and/or

Laboratory: Minimum 2-96 hours per semester and/or Clinic/Field: Minimum 5-240 hours per semester

Special topics related to fire technology. Each semester the specific subject matter of the course will be announced in the schedule of classes. This course may be taken three times.

275 DRIVER OPERATOR 1A

2.5 UNITS

Associate Degree Applicable

Prerequisite: Contract, paid-call, or documented volunteer fire fighting experience

Lecture: Minimum 40 hours per semester

Study of vehicle laws, driver responsibilities, emergency response procedures, apparatus and equipment maintenance procedures; maneuvering of fire apparatus through controlled driving exercises and in normal traffic conditions.

276 DRIVER OPERATOR 1B Associate Degree Applicable

2.5 UNITS

Prerequisite: FIRET 275

Lecture: Minimum 40 hours per semester

Study of the types and design of fire pumps; principles of pumping; review of applied mathematics, hydraulic laws; application of mental hydraulic calculations and operation of pumps under fire ground conditions.

277 HAZARDOUS MATERIALS FIRST RESPONDER

1.5 UNITS

2.5 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 24 hours per semester

Instruction in safe and competent response techniques for probable first responders to hazardous materials incidents. Includes instruction in safe containment techniques and protective actions designed to mitigate the incident as far as possible.

279 TRUCK COMPANY OPERATIONS 1A 1.5 UNITS

Associate Degree Applicable

Prerequisite: None Lecture: Minimum 16 hours per semester

Laboratory: Minimum 24 hours per semester

Review of fire truck operations and the skills and techniques required in the use of apparatus, tools and equipment under emergency conditions.

901 FIRE SERVICE CAREER PREPARATION 3 UNITS

Not Applicable to the Associate Degree

Prerequisite: None

Corequisite: FIRET 100 recommended Lecture: Minimum 48 hours per semester

Preparation of students to successfully compete for a position in the Fire Service. Includes academic skills testing, taking written, oral and physical agility tests and how to market skills.

902X4 FIREFIGHTER PHYSICAL AGILITY PREPARATION

Not Applicable to Associate Degree

Prerequisite: None Departmental Recommendation: PE/I 070X4

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 32 hours per semester

Preparation of pre-entry level fire technology students to develop a program of fitness and wellness and successfully pass a job related physical agility examination. Instruction in nutrition, fitness, physical development and the necessary agility skills. This course may be taken four times.

903 HAZARDOUS MATERIALS FIRST RESPONDER AWARENESS .5 UNIT

Not applicable to the Associate Degree Prerequisite: None

Lecture: Minimum 8 hours per semester

Instruction in the recognition of hazardous materials events, actions responses to the events and hazard assessment techniques. Satisfies the requirements for all healthcare workers. Offered for Credit or No Credit only.

French (French)

Department:Language ArtsDepartment Head:Mark Snowhite, M.A.

101 COLLEGE FRENCH I

5 UNITS

UC*, CSU*, Associate Degree Applicable Prerequisite: None Lecture: Minimum 80 hours per semester

Laboratory: Minimum 16 hours per semester

Comprehension, conversation, reading and composition, including drill in essential grammar, at the elementary level. (This course corresponds to the first year of high school French.)

102 COLLEGE FRENCH II

5 UNITS

UC, CSU, Associable Degree Applicable Prerequisite: FRENCH 101 or one year of high school French Lecture: Minimum 80 hours per semester Laboratory: Minimum 16 hours per semester Continuation of FRENCH 101. (This course corresponds to the

Continuation of FRENCH 101. (This course corresponds to the second year of high school French.)



Department: Department Head: Physical Science/Mathematics Sherri Wilson, M.S.

ASSOCIATE OF SCIENCE DEGREE GEOGRAPHY

REQUIRED	COURSES:	UNITS
GEOG 110	Physical Geography	3
GEOG 111	Physical Geography Laboratory	1
GEOL 100	Physical Geology	4
MATH 103	Plane Trigonometry	4
OCEAN 101	Elements of Oceanography	3

Select three units from the following:

GEOG 120	World Regional Geography	(3)
GEOL 170X4	Geologic History of the Great	(1)
	Basin	
GEOL 270X4	Geology of the Eastern Sierra	(1)
	Nevada	
CHEM 102	Introduction to Organic Chemistry	(4)
CHEM 150	General Chemistry I	(5)
CHEM 151	General Chemistry II	(5)
	TOTAL UNITS	18

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

110 PHYSICAL GEOGRAPHY

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester and field trips

Introduction to the basic elements of physical geography, emphasizing climate, landforms, hydrography, soils, native animal life, and national vegetation, their interrelationships and patterns of distribution throughout the world.

Changes Effective SPRING 2004 110 PHYSICAL GEOGRAPHY 3 UNITS UC_CSU_Associate Decreas Appliable 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Concurrent enrollment in GEOG 111

Lecture: Minimum 48 hours per semester and field trips

A spatial study of Earth's dynamic physical systems and processes. Topics include Earth-sun relationships, weather, climate, water, geomorphology/landforms, soils, and the biosphere. Emphasis is on interrelationships among systems and processes and their resulting patterns and distributions. Tools of geographic inquiry include maps, remote sensing, Geographic Information Systems, Global Positional Systems, and fieldtrips.

111 PHYSICAL GEOGRAPHY LABORATORY 1 UNIT

UC, CSU, Associate Degree Applicable Prerequisite or Corequisite: GEOG 110 Laboratory: Minimum 48 hours per semester Laboratory to accompany GEOG 110.

Changes Effective SPRING 2004 111 PHYSICAL GEOGRAPHY LABORATORY 1 UNIT

UC, CSU, Associate Degree Applicable Prerequisite/Corequisite: GEOG 110

Laboratory: Minimum 48 hours per semester

Laboratory to accompany GEOG 110. Geographic tools will be utilized to explore, understand, and identify the interrelationships of our atmosphere, hydrosphere, lithosphere, and biosphere. Topics include spatial location, weather, climate, water, geomorphology/landforms, soils, and the biosphere. Emphasis is on interrelationships among systems and processes and their resulting patterns and distributions. Tools of geographic inquiry include maps, aerial photographs, remote sensing, Geographic Information Systems (GIS), Global Positional Systems (GPS), and fieldtrips.

114 WEATHER AND CLIMATE

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester and field trips

Laboratory: Minimum up to 48 hours per semester Study of the earth's atmospheric phenomena, emphasizing the causes and regional distribution of weather and climate. (4 unit course includes a lab.)

3 - 4 UNITS

119ABCD SELECTED STUDIES IN GEOGRAPHY .25 - 1 UNIT

UC*, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 4-16 hours per semester and/or

Laboratory: Minimum 12-48 hours per semester

Short courses in regional, physical, and cultural geography, offered on an occasional basis.

120 WORLD REGIONAL GEOGRAPHY 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

An introduction to world geography emphasizing the nature of major world culture regions, their social structure, religions, governments and economics.

126 GEOGRAPHY OF CALIFORNIA 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester and field trips

Historical study of each general region in California (seashore, mountain, valley, desert) in terms of five ingredients: land, vegetative cover, fauna, water, and air.

Geology (Geol)

Department: Department Head: Physical Science/Mathematics Sherri Wilson, M.S.

ASSOCIATE OF SCIENCE DEGREE GEOLOGY

REQUIRED COURSES:		UNITS
GEOG 110	Physical Geography	3
GEOG 111	Physical Geography Laboratory	1
GEOL 100	Physical Geology	4
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
PHYSIC 200	Physics I	6
PHYSIC 201	Physics II	6
	TOTAL UNITS	30
RECOMMENDED COURSES:		UNITS
GEOL 170X4	Geologic History of the Great	1
	Basin	

	Dasin	
GEOL 250	Geology of California	3
GEOL 251	Geology of National Parks and	3
	Monuments	
GEOL270X4	Geology of the Eastern Sierra	1
	Nevada	
OCEAN 101	Elements of Oceanography	3

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 PHYSICAL GEOLOGY

4 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester and field trips

Introduction to earth materials and structures and the processes shaping the surface of the earth, including laboratory studies which are closely coordinated with lecture topics.

Changes Effective SPRING 2004100 PHYSICAL GEOLOGY4 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester Laboratory: Minimum 48 hours per semester and field trips

An introduction to the study of the earth with emphasis on the materials that make up the earth, discussion of plate tectonics; the process that created the continents and the ocean basins, and the external processes that create the landscapes. Tools of geologic inquiry include physical properties of minerals and rocks, aerial photographs, geologic maps, Brunton compass, Geographic Information Systems (GIS), Global Positional Systems (GPS), and field studies. The laboratory studies are closely coordinated with the lecture topics.

101 INTRODUCTION TO GEOLOGY

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Introduction to earth materials and structures, the processes shaping the surface of the earth, the origin of the planet, and the evolution of plant and animal life, with no laboratory studies.

Changes Effective SPRING 2004 101 INTRODUCTION TO GEOLOGY

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

An introduction to the study of the earth with emphasis on the materials that make up the earth, discussion of plate tectonics; the process that created the continents and the ocean basins, and the external processes that form the landscapes. Tools of geologic inquiry include physical properties of minerals and rocks. Aerial photographs, geologic maps, Brunton compass, Geographic Information Systems (GIS), Global Positional Systems (GPS), and field studies.

150 MAN AND HIS GEOLOGIC ENVIRONMENT 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester and field trips

Introduction to the interrelationships among geologic processes, earth materials, and man, emphasizing population, geologic hazards (landslides, mudflows, earthquake, volcanism, etc.), mineral fuels and resources and the geologic impact of their extraction, and other problems of a geologic nature related to massive urbanization. Emphasis will be placed on case studies within California.

160 GEOLOGY LABORATORY

1 UNIT

1 UNIT

3 UNITS

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite or Corequisite: Any course in Geology Laboratory: Minimum 48 hours per semester

Laboratory to accompany various Geology courses in order to complete the laboratory science requirement.

Changes Effective SPRING 2004 160 GEOLOGY LABORATORY

UC, CSU, Associate Degree Applicable Prerequisite/Corequisite: GEOL 101

Laboratory: Minimum 48 hours per semester

Laboratory exercises designed to utilize the tools of geologic inquiry, including physical properties of minerals and rocks, aerial photographs, geologic maps, Brunton compass, Geographic Information Systems (GIS), Global Positional Systems (GPS), and fieldtrips. The laboratory studies are closely coordinated with the lecture topics.

GEOL 170X4 GEOLOGIC HISTORY OF THE GREAT RASIN **1 UNIT**

CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 8 hours per semester

Laboratory: Minimum 24 hours per semester

Discussion and observation of the physical and historical geology and natural history of the Great Basin province of the United States, with specific emphasis on the geology of Death Valley National Park. Lectures preparatory to the field study and geologic tools will be utilized to explore, understand, and observe the geology in the Great Basin and around Death Valley. Tools of geologic inquiry include field notes, hand lens, Brunton compass, topographic maps, aerial photographs, remote sensing, Geographic Information System (GIS), and Global Positional Systems (GPS). Students must attend the field study for successful course completion. (Formerly GEOL 170ABC)

246ABCD SPECIAL PROBLEMS IN GEOLOGY 1 UNIT

UC*, CSU, Associate Degree Applicable

Prerequisite or Corequisite: Any course in Geology Laboratory: Minimum 48 hours per semester

Independent projects for selected students with a special interest in geology, involving library research, laboratory projects, and/or field studies.

250 GEOLOGY OF CALIFORNIA

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester and field trips

Survey of the physical and historical geology of California, with emphasis on the characteristic geologic record of the twelve geomorphic provinces into which the state is divided.

251 GEOLOGY OF NATIONAL PARKS AND MONUMENTS

3 UNITS

3 UNITS

CSU, Associate Degree Applicable **Prerequisite:** None

process which formed them.

Lecture: Minimum 48 hours per semester and field trips Study of the geology of selected national parks and monuments of the United States, with particular emphasis on the geologic

260ABC INTRODUCTION TO FIELD GEOLOGY 2 UNITS

UC*, CSU, Associate Degree Applicable

Prerequisite: Any course in Geology Lecture: Minimum 16 hours per semester

Laboratory: Minimum 48 hours per semester

Demonstration, discussion and practice of field investigations of geologic environments involving describing, mapping, and identifying geologic phenomena. Students must attend the field studies for successful completion of the course.

*Maximum UC credit, one course.

270X4 GEOLOGY OF THE EASTERN SIERRA NEVADA

1 UNIT

CSU, Associate Degree Applicable

Prerequisite: None Lecture: Minimum 8 hours per semester

Laboratory: Minimum 24 hours per semester

Discussion and observation of the physical and historical geology and natural history of the Pacific Coast province of the United States, with specific emphasis on the geology of Eastern Sierra Nevada. Lectures preparatory to the field study and geologic tools will be utilized to explore, understand, and observe the geology in the Pacific Coast province and around the Eastern Sierra Nevada. Tools of geologic inquiry include field notes, hand lens, Brunton compass, topographic maps, aerial photographs, remote sensing, Geographic Information Systems (GIS), and Global Positional Systems (GPS). Students must attend the fieldtrip for successful course completion. (Formerly GEOL 270ABC)

HEALTH EDUCATION (HEALTH)

Department:	
Department Head:	
Faculty:	

Health and Physical Education Deborah DeSalliers, Dr.P.H. Deborah DeSalliers, Dr.P.H. Janine Ledoux, Dr.P.H.

102 BIOLOGICAL PRINCIPLES OF HEALTH 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Examines the nature and scope of healthful living, including the principles of health resources, trends in disease prevalence, infectious and noninfectious diseases and risk factors (i.e. smoking, substance abuse, improper diet and inactivity).

103 HEALTHY APPROACH TO LOSING BODY FAT

3 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Healthy Approach to Losing Body Fat is a lecture course designed for men and women who are interested in achieving ideal body fat. The class will provide information about nutrition principles, meal planning, resistance training, cardiovascular conditioning and daily activities. Students will learn essential skills that enable them to help themselves plan their own diet and exercise routine. This course does not include exercise.

200 BIOLOGY OF SEXUALLY TRANSMITTED DISEASES 1.5 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 24 hours per semester

Study of the etiology and transmission of sexually transmitted diseases. Introductory material is presented regarding agent, treatment and prevention of prominent sexually transmitted diseases. Ethical issues related to this topic will be explored. This course transfers to CSU and is an elective for the Liberal Studies/Education program at CSUSB.

263 NUTRITION AND HEALTH

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

This course reviews the literature on the basic nutrients; protein, fat, carbohydrates, vitamins, minerals, and water. Students will have the opportunity to develop the skills necessary to analyze, evaluate and prescribe a dietary intake for "healthy" individuals. The class includes an in-depth analysis of emotional stress as a lifestyle factor in disease. This course is also offered as PE 263.

HISTORY (HIST)

Department:	
Department Head:	
Faculty:	

Social Sciences Mario Perez, M.A. Jane Beitscher, Ph.D. Mario Perez, M.A.

ASSOCIATE OF ARTS DEGREE HISTORY

REQUIR	ED COURSES:	UNITS	
HIST 100	History of the United States to 1877	3	
HIST 101	History of the United States 1865 to	3	
	Present		
HIST 160	History of Western Civilization:	3	
	From the Neolithic Revolution to the		
	Renaissance		
HIST 161	History of Western Civilization:	3	
	From the Renaissance to the Cold War		
HIST 170	World Civilizations (3500 BCE-1500 CE)	3	
HIST 17	World Civilizations (1500 CE - the Present)) 3	
Select six units from the following:			

GEOG110 Physical Geography (3) PHIL 103 Introduction to Logic: Argument and (3) Evidence POLIT 100 American Politics (3) TOTALUNITS 24

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 HISTORY OF THE UNITED STATES TO 1877

3 UNITS

3 UNITS

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None Departmental Recommendation: ENGL 101

Lecture: Minimum 48 hours per semester

This is an introductory survey course of American History from the pre-Columbian period to the end of the Reconstruction Era in 1877. Students are introduced to key issues and developments of the period as America shifts its economic, political, technological and cultural base from a predominantly dependent agrarian colonial society to an independent urban, industrial nation.

101 HISTORY OF THE UNITED STATES 1865 TO PRESENT 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: ENGL 101 Lecture: Minimum 48 hours per semester

This is an introductory survey course of American History from 1865 to present. Students are introduced to key social, political, economic and cultural issues and developments in America's emergence as an urban, industrial and technological, global leading, consumer society.

107 THE UNITED STATES AND THE NORTH AMERICAN INDIANS 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

History of the North American Indian from first contact through conquest and reservation life to the present; examination of modern Indian communities, including red power, urban life and current problems, including material on traditional Indian cultures. This course is also offered as ANTHRO 107.

135 RELIGION IN AMERICA

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 101

Lecture: Minimum 48 hours per semester

Study of the principal groups, figures, issues, and trends in religion from colonial times to the present, covering such topics as the Puritans, the growth of religious liberty in America, religion and social protest, the African-American religious experience, Catholic-Protestant-Jew, and contemporary religious phenomena. This course is also offered as RELIG 135.

153 HISTORY OF MEXICO

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Survey of the development of Mexico from its Indian agrarian, colonial beginning to its present industrial growth, emphasizing the themes of Mexico's cultural, social, and political changes.

160 HISTORY OF WESTERN CIVILIZATION: FROM THE NEOLITHIC REVOLUTION TO THE RENAISSANCE 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

An introductory survey of the political, economic, social and intellectual developments in the near East and Western Europe from 3500 BC to 155 AD. HIST 160 traces the development of these institutions from the "cradle of civilization" to the Renaissance. (CAN HIST 2)

161 HISTORY OF WESTERN CIVILIZATION: FROM THE RENAISSANCE TO THE COLD WAR 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Survey of the political, economic, social, and intellectual developments that form the basis for Western Civilization from the Renaissance to the cold war. (CAN HIST 4)

170 WORLD CIVILIZATIONS (3500 BCE-1500CE) 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Study of cross-cultural history emphasizing the art and literature, philosophy and religion, family and society, as well as the political, economic and technological contributions of the world's civilizations from the earliest societies through the classical to 1500CE. The course focuses on the ethno-cultural traditions of the Middle East, Asia, Greece, Rome and medieval Europe.

171 WORLD CIVILIZATIONS (1500CE TO THE PRESENT) 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Study of cross-cultural history emphasizing the art and literature, philosophy and religion, family and society, as well as the political, economic and technological contributions of the world's civilizations from 1500CE to the present. HIST 171 focuses on modern western and non-western history, culture and socio-political structures and the affect of modern technology, colonialism and revolution in the world.

Human Services (HUMSV)

Department:	Social Sciences
Department Head:	Mario Perez, M.A.

175 INTRODUCTION TO EATING DISORDERS 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

An overview of the description, explanation, and treatment of eating disorders such as anorexia, bulimia, compulsive eating, obesity, chronic dieting, and the history of these disorders. Surveys biological, psychosocial, behavioral, and other theoretical perspectives, and treatment approaches.

181 ALCOHOL/DRUG STUDIES: INTRODUCTION

3 UNITS

CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Exploration of the physiological, personal, interpersonal and societal causes and effects of alcohol/drug abuse, society's images of substance abusers and the various prevention, treatment and recovery approaches and modalities.

INTERDISCIPLINARY **Studies** (INTDIS)

Social Sciences Department: Department Head: Mario Perez, M.A.

080 GROUP LEADERSHIP SKILLS

Associate Degree Applicable

3 UNITS

Prerequisite: None

Departmental Recommendation: Active participation in the Associated Student Senate, student clubs and organizations, college sponsored activities or in a community based organization

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 96 hours per semester

Principles and practices for effective work in groups, group processes, and group leadership. Topics include parliamentary procedure, goal setting, planning and implementation of group objectives, budget development and management, interpersonal communication, group dynamics, public speaking, and responsibilities of membership. Students will be asked to apply knowledge through active participation in student organizations and activities.

081 GROUP LEADERSHIP SKILLS

Associate Degree Applicable **Prerequisite:** None

Departmental Recommendation: Active participation in the Associated Student Senate, student clubs and organizations, college sponsored activities or in a community based organization

Lecture: Minimum 16 hours per semester Laboratory: Minimum 96 hours per semester

Continuing study of the principles and practices for effective group leadership. Topics include a review of parliamentary procedure, goal setting, planning and implementation of group objectives. Additional topics include group dynamics, consensus building, conflict management, ethics, leadership and public speaking. Students will be asked to apply knowledge through active participation in student organizations and activities.

101 THE HUMANITIES

UC, CSU, Associate Degree Applicable

Prerequisite: None Lecture: Minimum 48 hours per semester

Study of the human search for understanding and those efforts to achieve dimension and significance in human existence. Critical examination of certain philosophical, religious, scientific, and aesthetic attitudes as essential motivating influences upon the development of Eastern and Western cultures and examinations of major forces and issues involved in contemporary civilization.

102 THE HUMANITIES

3 UNITS

3 UNITS

3 UNITS

3 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

Study of the human search for understanding and those efforts to achieve dimension and significance in human existence. Critical examination of history, technology, religion and the arts from the early Renaissance to the modern world as essential motivating influences upon the development of Western culture and examination of major forces and issues involved in the development of contemporary culture.

108 OUR GLOBAL FUTURE

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

Study of the world's most significant environmental problems. Areas of study will vary each semester as new problems arise and others are solved. However, the environment and preservation of the ecosystem will be among the principal concerns. Lectures and discussions, augmented by videos and occasional field trips, will focus on global crises, but special emphasis will be placed on the continuing search for solutions.

130 CONTEMPORARY ISSUES IN MEDICAL ETHICS 3 UNITS

CSU, Associate Degree Applicable **Prerequisite:** None Departmental Recommendation: ENGL 101

Lecture: Minimum 48 hours per semester

This is an introductory course in ethics of health care. The standard ethical theories will be presented and applied to various issues that arise in the health care context, such as euthanasia, abortion, informed consent, confidentiality, genetic testing and intervention, AIDS, distributive justice, and professional gatekeeping.

135 PEER EDUCATION: WELLNESS IN ACTION 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: ENGL 015, PSYCH 100 and/or SOC 100, SPEECH 100 and/or SPEECH 111 Loctume Minimum 4% hours non-sector

Lecture: Minimum 48 hours per semester

Prepares students to become effective peer educators (e.g. Advocates for Better Body Image, Sexual Health Advocates, Students against Drinking and Driving, Dangers of Binge Drinking and Alcohol Poisoning, Peer Influence on Smoking Behaviors.) Students focus on various health issues that affect the college population. Students participate in the process of planning, implementing, and evaluating culturally sensitive educational programs for their peers. Students learn a variety of presentation styles and group facilitation skills and address issues such as, confidentiality, boundary setting and Para-professionalism.

140 HUMANITIES THROUGH THE ARTS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Study of the humanities through a study of seven major arts: film, drama, music, literature, painting, sculpture, and architecture. Each of these arts is considered from the perspectives of historical development; the elements used in creating works of art; meaning and form expressed; and critical evaluation.

145X4 HUMANITIES THROUGH MUSICAL PERFORMANCE

Associate Degree Applicable

Prerequisite: An intermediate ability in the playing of a string instrument and an ability to read music

Laboratory: Minimum 48 hours per semester

Performance of orchestral musical achievements from the Baroque to the present including rehearsing, performing, and considering how these works of art reflect various historical and cultural periods. This course may be taken four times.

180 COMMUNITY SERVICE AND LEADERSHIP I

2 - 3 UNITS

3 UNITS

1 UNIT

CSU, Associate Degree Applicable

Prerequisite: None

Corequisite: Active participation in a community based organization

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 48 – 96 hours per semester

Principles and practices of effective and ethical leadership through community service. Topics of study include interpersonal skills, team building, goal setting, ethics, and valuing diversity, which students will apply in the context of their own service-learning experience. Lectures provide for planning, orientation, and analysis of leadership activities outside the classroom. Three-six hours of volunteer or community service work weekly are required.

181 COMMUNITY SERVICE AND LEADERSHIP II

2 - 3 UNITS

CSU, Associate Degree Applicable Prerequisite: None Corequisite: Active participation in a community based organization Departmental Recommendation: INTDIS 180 Lecture: Minimum 16 hours per semester Laboratory: Minimum 48 – 96 hours per semester

Continued study of the principles and practices of effective and ethical leadership through community service. Topics of study include networking, event planning, conflict management, negotiation and consensus building, which students will apply in the context of their own service-learning experience. Lectures provide for planning, orientation, and analysis of leadership activities outside the classroom. Three-six hours of volunteer or community service work weekly are required.

Learning Resources

(LRC)

1 UNIT

050 TUTOR TRAINING

Associate Degree Applicable Prerequisite: None Lecture: Minimum 12 hours per semester

Laboratory: Minimum 12 hours per semester

Basic tutoring instruction using classic learning theories and differences in learning style. Designed for current peer tutors and those interested in tutoring; introduction to basic instructional methodology and its applications to different tutoring situations; highlights of specific problems that may interfere with learning and tutoring.

900X4 LEARNING RESOURCES LABORATORY 0 UNIT *Not applicable to the Associate Degree*

Prerequisite: None

Corequisite: Enrollment in at least one other course at CHC

Laboratory: Minimum 1-500 hours per semester

Provides academic support services to students enabling them to succeed in various content area classes, such as English, Math, Science, and Foreign Language, and vocational courses. Activities may include supervised individual or group tutorial services, computer assisted instruction, video viewing and testing to augment direct instruction and to facilitate student learning. Designed to meet the needs of students from various educational preparations, ethnic backgrounds, cultures, and socioeconomic levels. This course may be taken four times.

960X4 DEVELOPMENTAL STUDY TECHNIQUES

.25 - 2 UNITS

Not applicable to the Associate Degree

Prerequisite: None

Laboratory: Minimum 12-96 hours per semester

This course provides participation in programs individually designed to assist students in their mastery of basic study techniques necessary for successful achievement in college courses. Some topics that may be addressed are note-taking, test preparation, textbook reading, and time management. This course may be taken four times. (Formerly READ 960ABCD, READ 961ABCD, READ 962ABCD and READ 963ABCD)

MARKETING (MARKET)

Department:	Business
Dean:	Donna Ferracone, M.A.
Liaison Counselor:	John Gist, M.S.

ASSOCIATE OF ARTS DEGREE MARKETING

REQUIRED COURSES:		UNITS
MARKET 100	Marketing Principles	3
MARKET 105	Salesmanship Principles	3
MARKET 110	Advertising	3
BUSAD 053	Business Computations	3
BUSAD 100	Introduction to Business	3
BUSAD 210	Business Law	3
	TOTALUNITS	18

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

MARKETING MANAGEMENT CERTIFICATE

The objective of this certificate program is to provide entry-level, marketable employment skills to equip the student with a basic understanding of the terminology and basic concepts/procedures used in the marketing field, and to acquaint the student with the various sub-functions within the overall field of marketing. Completion of the certificate program will prepare the student for entry-level employment in a variety of related occupations including retail sales clerk, outside sales representative, advertising, merchandiser, distribution, or customer service representative.

Admission: Open to all students. Registration is limited to class size restrictions.

Certificate requirements include the completion of 5 core courses (no more than 1 course from each group) and the completion of 5 specialty courses.

CORE COURSES

1. ACCT 210 ACCT 211	Principles of Accounting Principles of Accounting Computer Laboratory O R	(3.0) (1.0)
ACCT 205	Bookkeeping	(3.0)
2. MARKET 100	Marketing Principles	3.0
3. BUSAD 100	Introduction to Business	3.0

4.		
ECON 200	Principles of Macroeconomics	(3.0)
ECON ANI	OR	(2.0)
ECON 201	Principles of Microeconomics	(3.0)
5.		
BUSAD 210	Business Law	3.0
6.		
BUSAD 053	Business Computations	(3.0)
MATH 108	O R Statistics	(3.0)
MAIN 108	Statistics	(3.0)
7.		
Computer Language Course		3.0
REQUIRED S	PECIALTY COURSES	
BUSAD 200	Business Management	3.0
MARKET 105	6	3.0
MARKET 110	Advertising	3.0
BUSAD 105	Small Business Management	3.0
BUSAD 230	Using Computers for	(3.0)
	Business	
	OR	
Any Business C		(3.0)
	TOTAL	30 - 32

Contact the Admission's Office to apply for a certificate. If you wish to participate in the Graduation Ceremony, contact the Program Development Office at 389-3344 by March 1, 2004.

100 MARKETING PRINCIPLES

3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level or equivalent, ENGL 015

Lecture: Minimum 48 hours per semester

Principles and methods of marketing as practiced by all successfully managed business firms; covers such topics as demand analysis, forecasting, product development, price determination, distribution channels, material handling, advertising, and personal selling.

105 SALESMANSHIP PRINCIPLES

3 UNITS

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level or equivalent, ENGL 015 Lecture: Minimum 48 hours per semester

Study of the psychology involved in selling services, goods, ideas, and one's own personality; examination of the problems of analyzing the sales talk, making an adequate approach, meeting objectives and excuses, closing the sale, and others.

106 RETAIL MANAGEMENT

3 UNITS

Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 015

Lecture: Minimum 48 hours per semester

Principles and practices used in the management of retail stores. Includes site selection, layout, organization, staffing, positioning, customer service, promotional techniques and all aspects of the critical buying function.

110 ADVERTISING

CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level or equivalent, ENGL 015 Lecture: Minimum 48 hours per semester

Principles, purposes, and practices of advertising; analysis of the channels of trade, the importance of the correct appeal, style, trademarks, headlines, typography, color, layout, ethics, and other problems involved in effective advertising. No artistic ability required.

198 MARKETING WORK EXPERIENCE 2 - 4 UNITS

CSU*, Associate Degree Applicable

Prerequisite: Enrolled in Marketing occupational program and working at a job directly related to student's major

Corequisite: Enrolled in at least 7 units, including this Work Experience course

Work Experience: 150-300 hours Paid Employment 120-240 hours Unpaid Employment

Integration of classroom instruction with practical on-the-job experience coordinated with the program of study and related to appropriate occupational goals.

MATHEMATICS (MATH)

Department: Department Head: Faculty: Physical Science/Mathematics Sherri Wilson, M.S. Robert Crise, M.A. Merrill Deming, M.A. Kathleen Gibson, M.A. Stephen Ramirez, M.A. Sherri Wilson, M.S.

ASSOCIATE OF SCIENCE DEGREE MATHEMATICS

REQUIRED	COURSES:	UNITS
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
Select five u	nits from the following:	
MATH 108	Statistics	(4)
MATH 115	The Ideas of Mathematics	(3)
MATH 151	Precalculus	(4)
MATH 254	Introduction to Ordinary Differential	(4)
	Equations	
CIS 103	Programming In Visual Basic	(3)
CIS 114	C++ Programming	(3)
CIS 115	Programming in C	(3)
CIS 116	C++ Programming II	(3)
PHYSIC110	General Physics I	(4)
PHYSIC111	General Physics II	(4)
PHYSIC 200	Physics I	(6)
PHYSIC 201	Physics II	(6)
	TOTALUNITS	18

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

090 ELEMENTARY ALGEBRA

4 UNITS

Associate Degree Applicable Prerequisite: MATH 952 or a high school (or GED) diploma Lecture: Minimum 64 hours per semester

This course will include the basic topics of algebra, including operations with signed numbers and algebraic expressions. The algebra of integer exponents will be studied. The solution of first degree, fractional, and literal equations will be addressed, as will be an introduction to the solution of quadratic equations by factoring and formula. Emphasis will be placed on mastery in factoring (including common factors, difference of squares, sum and difference of cubes, trinomials, and grouping). Rational expressions will also be emphasized. Included in this course will be the study of first degree equations in two variables and their transformation into a graphical representation.

093 PLANE GEOMETRY

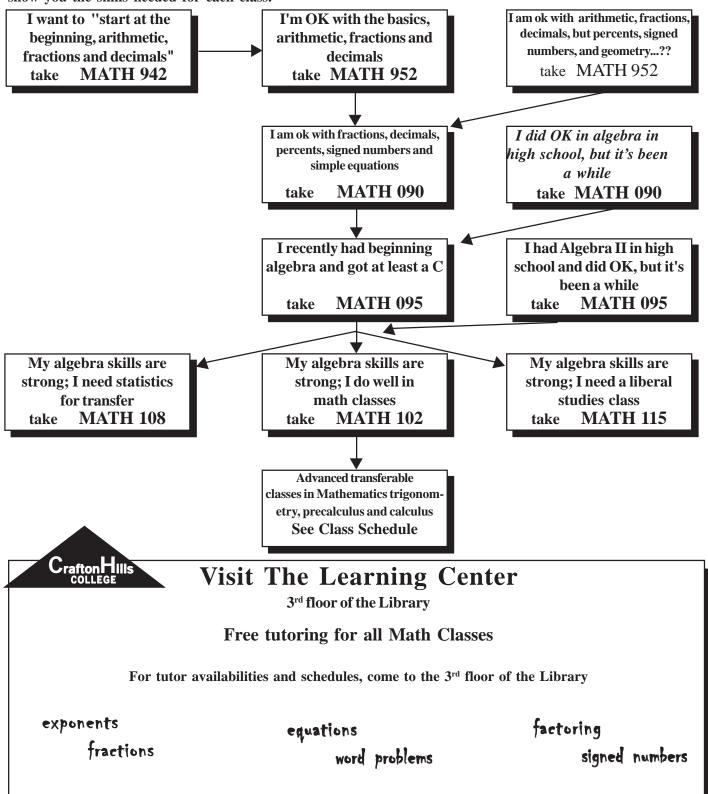
4 UNITS

Associate Degree Applicable Prerequisite: MATH 090 or equivalent Lecture: Minimum 64 hours per semester

Fundamentals of plane geometry developed by inductive and deductive processes, with emphasis on deductive reasoning. Topics addressed include basic definitions and axioms, geometric constructions, congruent triangles, similar triangles, parallel lines, quadrilaterals, circles and area.

Levels and Order of Mathematics Classes

The ability to think and reason using numerical concepts is an essential skill. There are several possible starting points for you to enter at the right level. Starting at the right class will let you move from class to class successfully and get to the point you need in the shortest amount of time. Start with the statement that best describes you and follow that path. A Counselor can show you the skills needed for each class.



095 INTERMEDIATE ALGEBRA

Associate Degree Applicable Prerequisite: MATH 090 or equivalent Lecture: Minimum 64 hours per semester

This course provides additional rigor above the level taught in Elementary Algebra in factoring, fractions, and equations. Students also study inequalities with absolute value, rational exponents, radicals, quadratic and exponential functions, linear and nonlinear systems of equations and functions and their inverses. Building linear equations from geometric characteristics is also taught.

102 COLLEGE ALGEBRA

UC*, CSU, Associate Degree Applicable Prerequisite: MATH 095 or equivalent

Lecture: Minimum 64 hours per semester

This course will include logarithms, sequences, series, the Binomial Theorem, graphing conic sections, inverse functions, operations with radicals with different indices, systems of quadratic equations, and solving systems of three or more linear equations in three or more variables by matrices, and determinants. There will also be an introduction to graphing rational function, and the theory of equations.

* MATH 102 and MATH 151, maximum UC credit one course.

103 PLANE TRIGONOMETRY

CSU, Associate Degree Applicable Prerequisite: MATH 102 or equivalent

Lecture: Minimum 64 hours per semester

This course includes the definitions of the circular functions, their inverses, and their properties and graphs. Emphasis is placed on mastering trigonometric identities and the solution of trigonometric equations. Applications of these topics to the solution of triangles and vector representations are presented.

108 STATISTICS

UC, CSU, Associate Degree Applicable Prerequisite: MATH 095

Lecture: Minimum 64 hours per semester

Introduction to probability, descriptive and inferential statistics, with application to the natural sciences, business, economics, and behavioral sciences.

115 THE IDEAS OF MATHEMATICS

UC, CSU, Associate Degree Applicable Prerequisite: MATH 095 or equivalent

Lecture: Minimum 48 hours per semester

Sets, propositional logic, and the applications to topics from discrete mathematics including enumeration techniques and finite probability spaces.

141 CALCULUS FOR BUSINESS

4 UNITS

3 UNITS

UC*, CSU, Associate Degree Applicable Prerequisite: MATH 102

Lecture: Minimum 64 hours per semester

This is an introductory study, which includes graphing, differentiation and integration of rational, exponential, and logarithmic functions in single and multivariable forms. An emphasis is placed on applications of calculus in business and economics.

*No UC Credit for MATH 141 if taken after MATH 250 or 251.

151 PRECALCULUS

UC*, CSU, Associate Degree Applicable Prerequisite: MATH 103 or equivalent Lecture: Minimum 64 hours per semester

This course includes the study of inequalities; absolute value; functions and functional notation; quadratic equations (in two variables); sketching conic sections and rational functions; theory of equations; general forms of conic sections; induction, including the binomial theorem, an introduction to analytic geometry and its proofs, and an introduction to limits and continuity. * MATH 102 and MATH 151, maximum UC credit one course.

250 SINGLE VARIABLE CALCULUS I

UC, CSU, Associate Degree Applicable Prerequisite: MATH 151 or equivalent

Lecture: Minimum 64 hours per semester

The study of relations and functions, limits and continuity, derivatives of algebraic, trigonometric, implicit, exponential, logarithmic, and inverse trigonometric functions. Applications of the derivatives include maxima and minima, graphing relations and functions, and related rates. The curriculum also includes Rolle's Theorem, and the mean value theorem.

251 SINGLE VARIABLE CALCULUS II 4 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: MATH 250 or equivalent

Lecture: Minimum 64 hours per semester

The study of integration of algebraic, trigonometric, exponential, logarithmic, and inverse trigonometric functions. Applications of the integrals include area between curves, volume of revolution, length of a plane curve, area of a surface of revolution, rectilinear motion, work done by a variable force (including Hooke's Law), and fluid pressure and force. Also addressed are improper integrals, conic sections, parametric equations, infinite series, and polar coordinates. The curriculum also includes both the First and the Second Fundamental Theorems of Calculus.

252 MULTIVARIABLE CALCULUS

UC, CSU, Associate Degree Applicable Prerequisite: MATH 251 or equivalent Lecture: Minimum 80 hours per semester

The study of vectors and solid analytic geometry, functions of several variables, partial derivatives, multiple integrals, and line and surface integrals. The course includes Stoke's Theorem, Green's Theorem, and divergence theorem. (CAN MATH 22)

254 INTRODUCTION TO ORDINARY DIFFERENTIAL **EQUATIONS 4 UNITS**

UC, CSU, Associate Degree Applicable Prerequisite: MATH 251

Lecture: Minimum 64 hours per semester Introduction to first order equations, second order linear equations, systems of first order linear equations, series solutions, Laplace transforms and applications to the physical and biological sciences.

942 ARITHMETIC

Not Applicable to the Associate Degree Prerequisite: None Lecture: Minimum 48 hours per semester Laboratory: Minimum 48 hours per semester Study of the fundamental operations involving whole numbers,

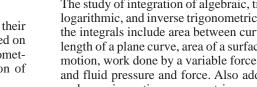
fractions, decimals, and percents.

4 UNITS

4 UNITS

5 UNITS

4 UNITS



4 UNITS

4 UNITS

4 UNITS

952 PREALGEBRA

4 UNITS

Not Applicable to the Associate Degree Prerequisite: MATH 942 or equivalent according to CHC *placement procedures*

Lecture: Minimum 64 hours per semester

This course prepares students for elementary algebra, MATH 090, providing a transition from arithmetic to algebra, covering operations with signed numbers, solving simple single variable linear equations, combining like terms, ratios, proportions, percents and their applications, perimeter, area, and volume of common geometric figures. Fractions and decimals are reviewed throughout the course.

MICROBIOLOGY (MICRO)

Department Department Head: Faculty:

Biological Sciences and Chemistry Lisa Shimeld, M.S. Lisa Shimeld, M.S.

ASSOCIATE OF SCIENCE DEGREE MICROBIOLOGY see **BIOLOGY**

102 INTRODUCTORY MICROBIOLOGY

UC*, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester

Introduction to microbiology, emphasizing the general characteristics of microorganisms, principles of microbial growth, identification, and control, and the relationships between human beings and microbes. Special attention is given to infectious diseases. Recommended for students in health occupations. Surveys of bacteria, fungi, viruses, and parasitic protozoans are included. * MICRO 102 and MICRO 150 combined: Maximum UC credit -5 units.

150 MEDICAL MICROBIOLOGY

5 UNITS

4 UNITS

UC*, CSU, Associate Degree Applicable Prerequisite: CHEM 101

Lecture: Minimum 48 hours per semester Laboratory: Minimum 96 hours per semester

Study of microbiology, emphasizing the biology of microorganisms including bacteria, fungi, protozoans, helminths, and viruses. Introduces the student to the fundamental principles of medical microbiology including microbial cultivation, metabolism, genetics, growth, and control. Principles of epidemiology, disease transmission and a survey of communicable diseases are also included. * MICRO 102 and MICRO 150 combined: Maximum UC credit -

5 units.

151 ADVANCED MEDICAL MICROBIOLOGY 3 UNITS

Associate Degree Applicable Prerequisite: MICRO 150

Lecture: Minimum 48 hours per semester

Advanced study of clinical microbiology. Microorganisms as agents of disease in humans and domestic animals, host-parasite relations, and chemotherapy, humoral and cell-mediated immunity, diagnosis, treatment, and the epidemiology of infectious diseases. Surveys of infectious diseases of humans and domestic animals caused by bacteria, viruses, fungi, parasitic protozoans, and helminths.

SPECIAL PROBLEMS IN MICROBIOLOGY	
246AB	1 UNIT
247AB	2 UNITS
248AB	3 UNITS
UC*, CSU, Associate Degree Applicable	

Prerequisite: MICRO 150

Independent Study: Minimum 48 hours per semester Independent projects for selected students with a special interest in microbiology, involving library research and/or laboratory projects.

MUSIC (MUSIC)

Department: Department Head: Faculty:

Fine Arts Marc Wurmbrand, M.F.A. Mark McConnell, M.M.

ASSOCIATE OF ARTS MUSIC

REQUIRED COURSES:		UNITS
MUSIC 101	Music Theory I	3
MUSIC 102	Music Theory II	3
MUSIC 103	Introduction to and Appreciation	3
	of American Popular Music	
MUSIC 135X4 Piano (must be taken four times)		8
Select eight	units from the following:	
MUSIC 1502	K4 Mixed Chorus	(2)

MUSIC 156X4 Concert Choir (2)MUSIC 174X4 Jazz Ensemble (2)MUSIC 175X4 Jazz Band Workshop (2)TOTALUNITS 25

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 FUNDAMENTAL SKILLS IN MUSIC UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

Basic music theory and practical applications to develop an understanding of the elements of music. Study of pitch, rhythm, notation, and sight reading. Includes sight singing and introduction to keyboard and simple rhythmic instruments.

101 MUSIC THEORY I

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 40 hours per semester

Laboratory: Minimum 24 hours per semester First course in a progressive study through four semesters includes work in sight singing, dictation, rhythm, scales, intervals, key signatures, and harmonic techniques from the Common Practice Era to Serialism. Open to both music majors and non-majors.

102 MUSIC THEORY II

3 UNITS

3 UNITS

3 UNITS

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: MUSIC 101

Lecture: Minimum 40 hours per semester

Laboratory: Minimum 24 hours per semester Second course in a progressive study through four semesters including work in sight singing, dictation, rhythm, scales, intervals, key signatures, and harmonic techniques from the Common

103 INTRODUCTION TO AND APPRECIATION OF AMERICAN POPULAR MUSIC 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Practice Era to Serialism.

Lecture: Minimum 48 hours per semester

Study of the histroy of American music with an emphasis on popular music of the past 80 years. Included are units on rock, jazz, and musical comedy.

105X2 MUSICIANSHIP

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 16 hours per semester

Study of melodic rhythmic dictation, drill in sight reading, and analysis of music of the masters using keyboard harmonies. This course may be taken two times.

112A JAZZ THEORY AND MUSICIANSHIP I 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Ability to read music

Lecture: Minimum 48 hours per semester

Study of the elements of contemporary jazz theory, emphasizing techniques of jazz improvisation.

112B JAZZ THEORY AND MUSICIANSHIP II 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Ability to read music Lecture: Minimum 48 hours per semester

Study of the elements of contemporary jazz theory, emphasizing techniques of jazz improvisation.

120 APPRECIATION OF MUSICAL LITERATURE 3 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

Introduction to musical literature. This course is designed to develop an understanding of music and musicians in a societal and historical context.

130X2 ELEMENTARY VOICE

UC, CSU, Associate Degree Applicable Prerequisite: Ability to match pitches Lecture: Minimum 16 hours per semester Laboratory: Minimum 32 hours per semester

Introduction to the proper use of the voice in both singing and speaking, including techniques of posture, breathing, breath control, tone color, diction, use of the simple musical repertoire, and beginning interpretation. This course may be taken two times.

132X4 GUITAR

2 UNITS

2 UNITS

2 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: Student must have his/her own guitar Lecture: Minimum 16 hours per semester Laboratory: Minimum 32 hours per semester

Progressive study of the basic techniques of playing the guitar, including instruction in chords; arpeggios in all keys; improvisation; accompaniment; sightreading; transposition; folk, classical, jazz, and pop styles in major and minor scales; introduction to the literature and style of classical guitar; solo and ensemble guitar of the different periods of musical history; introduction of three octave scales in all keys; development of skills in rare time meters and rhythms. This course may be taken four times.

AMERICAN JAZZ MUSIC - PAST AND PRESENT 134 **3 UNITS**

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Study of the evolution of jazz as an American musical art form; knowledge of the men and women who developed jazz from its early beginnings up to the present time; listening to all the major jazz artists and their innovations.

135X4 PIANO

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendation: MUSIC 100 Lecture: Minimum 16 hours per semester

Laboratory: Minimum 32 hours per semester

Progressive class instruction in piano, including scale techniques, sight-reading, ensemble playing, basic literature, keyboard techniques, and musicianship skills. This course may be taken four times.

143X4 WOODWIND, BRASS AND PERCUSSION INSTRUCTION 2 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: Ability to match pitches and perform basic manual skills

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 32 hours per semester

Class instruction on wind and percussion instruments. A beginning level class open to all, but students must provide their own instruments. Music majors interested in learning a second instrument are encouraged to take advantage of this opportunity. This course may be taken four times.

150X4 MIXED CHORUS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 48 hours per semester

Foundational techniques in such aspects of choral music as breathing, tone production, enunciation and musicianship, especially recommended for pre-teaching and liberal arts majors who desire vocal training. This course may be taken four times.

154X4 COLLEGE SINGERS

UC, CSU, Associate Degree Applicable

Prerequisite: None Departmental Recommendation: Audition with instructor Lecture: Minimum 8-16 hours per semester Laboratory: Minimum 40-80 hours per semester Study and performance of outstanding representative choral works from all periods of music history.

156X4 CONCERT CHOIR

2 UNITS

2 UNITS

1 - 3 UNITS

2 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: Faculty recommendation through audition Departmental Recommendation: MUSIC 150X4 or equivalent

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 48 hours per semester

Performance and study of choral works from all periods of music. This course may be taken four times.

164X4 COLLEGE CONCERT BAND (COMMUNITY) 1 - 2 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: Intermediate or high performance level on traditional band instrument

Laboratory: Minimum 48 hours per semester per unit Study of band literature, stressing the finest of concert literature for band use. This course may be taken four times.

174X4 JAZZ ENSEMBLE

UC, CSU, Associate Degree Applicable Prerequisite: Demonstrate performance proficiency on

instrument/voice through audition

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 48 hours per semester

Study and performance of Jazz literature, style, and interpretation. Open to instrumentalists and vocalist. Performance required. This course may be taken four times.

175X4 JAZZ BAND WORKSHOP 2 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: MUSIC 174X4 and/or faculty recommendation through audition

Lecture: Minimum 16 hours per semester

Laboratory: Minimum 48 hours per semester

Continued study and performance of Jazz literature, style, and interpretation. Advanced performance level; performance required. This course may be taken four times.

180X4 REHEARSAL AND PERFORMANCE 1-2 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendation: Advanced performance ability on instrument or voice

Laboratory: Minimum 32 hours per semester

Preparation and public performance and musical plays, operattas, operas and/or oratorios for both vocalists and instrumentalists. This course may be taken four times.

201 MUSIC THEORY III **3 UNITS**

UC, CSU, Associate Degree Applicable Prerequisite: MUSIC 102 Lecture: Minimum 40 hours per semester

Laboratory: Minimum 24 hours per semester

Third course in a progressive study through four semesters including work in sight singing, dictation, rhythm, scales, intervals, key signatures, and harmonic techniques from the Common Practice Era to Serialism. Music Theory III includes detailed study of form, modulation, modal harmony, and extended compositional techniques.

202 MUSIC THEORY IV

UC, CSU, Associate Degree Applicable Prereauisite: MUSIC 201 Lecture: Minimum 40 hours per semester Laboratory: Minimum 24 hours per semester

Fourth course in a progressive study through four semesters including work in sight singing, dictation, rhythm, scales, intervals, key signatures, and harmonic techniques from the Common Practice Era to Serialism. Music Theory IV includes detailed study of form, modulation, modal harmony, and extended compositional techniques.

Oceanography (ocean)

Department: Department Head: **Physical Science/Mathematics** Sherri Wilson, M.S.

101 ELEMENTS OF OCEANOGRAPHY

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Study of the basic principles of oceanography, including geology, physics, chemistry, and biology of the oceans. Topics include the structure of the earth and sea floor, the physics and chemistry of the ocean, atmospheric wind and ocean circulation, waves, currents, tides, marine plants, and animals, ecological concepts, and environmental concerns. Tools of oceanographic inquiry include maps, remote sensing, Geographic Information Systems, Global Positional Systems, and field trips.

3 UNITS

3 UNITS

Personal Career Development (PCD)

Department: Department Head: Social Sciences Mario Perez, M.A.

055 STUDENT SUCCESS AND THE COLLEGE EXPERIENCE 1 UNIT

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 14 hours per semester Laboratory: Minimum 6 hours per semester

Provides for assessment of basic skills, career interest and personal awareness. Includes orientation to the college services, liberal arts and vocational studies programs, information on degree requirements, and transfer to four-year institutions. Assists students in the process of career/life planning. Satisfies the freshman orientation segment of the state mandated Matriculation Process. This course is required of all students entering college for the first time. (Formerly PSYCH 055)

090 EDUCATION AND INTERPERSONAL GROWTH

3 UNITS

3 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Designed to foster personal development through a decision making process which includes value systems, self awareness, changing lifestyles, patterns of communication, and how these factors affect the student's education, growth and goals.

111 CAREER LIFE PLANNING

CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Designed to cover theories and concepts of values, interests, skills and personality development as applied to the career/life planning process and its application to labor market trends for beginning or returning students. Short and long term career/life plans will be developed. Awareness of diversity is infused throughout the course as it relates to varied psychological and sociological forces within both college and the work place.

PHILOSOPHY (PHIL)

Department: Department Head: Faculty: Social Science Mario Perez, M.A. J. Christopher Biffle, M.A.

ASSOCIATE OF ARTS DEGREE PHILOSOPHY

REQUIRED COURSES:		UNITS
PHIL 101	Introduction to Philosophy	3
PHIL 103	Introduction to Logic: Argument and	3
	Evidence	
PHIL 105	Moral Values in Today's Society	3
RELIG 101	Introduction to World Religions	3
RELIG110	Primitive Religions	3
INTDIS 101	The Humanities	(3)
	OR	
INTDIS 102	The Humanities	(3)
	TOTAL UNITS	18

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

3 UNITS

101 INTRODUCTION TO PHILOSOPHY

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Comprehension at or above the 12th grade level, ENGL 015

Lecture: Minimum 48 hours per semester

Introduction to the major problems of philosophy, utilizing classical and modern philosophical literature as a basis for discussion of epistemology, metaphysics, ethics and aesthetics.

103 INTRODUCTION TO LOGIC: ARGUMENT AND EVIDENCE 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Departmental Recommendations: Reading: Comprehension at or above the 12th grade level, ENGL 101

Introduction to the techniques of critical thought, including language analysis, inductive and deductive logic, symbolic logic and the development of the scientific method.

105 MORAL VALUES IN TODAY'S SOCIETY 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: ENGL 101, 12th grade reading level

Lecture: Minimum 48 hours per semester

Study of moral philosophy, with analysis of the basic ideas and principles involved in moral conduct, including the concepts of good, right, virtue, obligation and conscience. Problems of truthfulness, race, sex, marriage and war or peace are examined in relation to moral philosophy. Special attention is given to contemporary problems.

Physical Education

Department: Department Head: Faculty: Health and Physical Education Deborah DeSalliers, Dr.P.H. Deborah DeSalliers, Dr.P.H. Janine Ledoux, Dr.P.H. Ralph Rabago, M.S.

3 UNITS



263 NUTRITION AND HEALTH

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

This course reviews the literature on the basic nutrients; protein, fat, carbohydrates, vitamins, minerals, and water. Students will have the opportunity to develop the skills necessary to analyze, evaluate and prescribe a dietary intake for "healthy" individuals. The class includes an in-depth analysis of emotional stress as a lifestyle factor in disease. This course is also offered as HEALTH 263.

Individual & Group Activities (PE/I)

All courses in this section provide instruction in the basic skills and techniques of the sport or activity. Each course is designed to improve physical fitness; some provide recreational skills for life-long enjoyment of leisure time.

NOTE: A maximum of 4 units of activity classes will transfer to the UC or CSU. There are no limits on the number of units that will transfer to UC for the following dance classes: PE/I 130X4, PE/I 143X4, PE/I 163X4, PE/I 167X4

070X4 FITNESS EVALUATION

Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 12 hours per semester

Health evaluation is a testing regime that assesses cardiovascular fitness, strength, flexibility, health history, hydration, body fat, body lean, and dietary intake. Recommendations for an exercise and nutrition program are given to students based on stated personal needs. Students then follow a prescribed program and retest to track health changes. Offered for Credit or No Credit only. This course may be taken four times.

105X4 AEROBICS

UC*, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

This course is designed for beginners, with little/no aerobic fitness knowledge and/or experience and for advanced students who desire a more vigorous exercise regiment. The specific aerobic fitness class is described in the current class schedule (i.e. boot camp, interval, step & pump, kick boxing, sculpt & define and "tae bo"). This course may be taken four times.

106X4 TOTAL BODY FITNESS

.5 - 1 UNIT

.5 - 1 UNIT

.25 UNIT

UC*, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

Total body fitness is designed for men and women who are interested in improving both cardiovascular fitness and strength. The class will incorporate various cardiovascular and strength training regimens to promote optimal conditioning. Individual programs will be developed for each student. This course may be taken four times.

108X4 WEIGHT TRAINING

.5 - 1 UNIT

.5 - 1 UNIT

UC*, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

This course is designed for beginners, with little/no weight training knowledge and/or skills and for advanced students who desire more sophisticated routines (negative workouts, giant setting, pyramids, split routines, etc.) Included in instruction are basic principles, body mechanics and dietary prescription. A complete, individualized program will be developed for each student. This course may be taken four times.

120X4 GOLF

UC*, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

This course develops playing and competitive skills for the lifetime benefits of participation in the sport of golf. Included in instruction will be skills, techniques, strategies, rules, and etiquette. This course may be taken four times.

127X4 WALKING FOR FITNESS .5 - 1 UNIT UC*, CSU*, Associate Degree Applicable

Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

Walking for fitness is suited for men and women of all ages and fitness levels. Various walking routes on the campus will provide the backdrop for this class which is designed to promote weight loss through walking and to improve cardiovascular health and general well-being. This course may be taken four times.

130X4 JAZZ DANCE

UC, CSU*, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 8-16 hours per semester Laboratory: Minimum 16-32 hours per semester

This course is designed for beginning students, with little or no experience in jazz dance, and for advanced students who wish to clarify technical problems and deficiencies. The physical and historical perspectives of jazz are emphasized with instruction in jazz techniques using various styles and approaches within the jazz idiom. This course is also offered as THART 130X4. This course may be taken four times.

143X4 FUNK/HIP HOP DANCE

UC, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

This course is designed for beginning students, with little or no experience in funk/hip hop dance, and for advanced students who wish to clarify technical problems and deficiencies. Students will develop skills that will enable them to perform dance steps in video dancing using techniques such as brake, pop style and up-tempo. This course may be taken four times.

148X4 TENNIS

UC*, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

This course develops playing and competitive skills for the lifetime benefits of participation in the sport of tennis. Included in instruction will be skills, techniques, strategies, rules, and etiquette. This course may be taken four times.

155X4 CONDITIONING WITH THE PILATES METHOD .5 - 1 UNIT

UC*, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

The Pilates Method of exercise is a combination of yoga and strength training. The training regime focuses on improving strength and flexibility with minimal stress to the body. It is an excellent form of exercise for any student, including students with physical limitations. This course may be taken four times.

159X4 KARATE

.5 - 1 UNIT

1 - 2 UNITS

.5 - 1 UNIT

.5 - 1 UNIT

UC*, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

This course is designed to teach the principles of unarmed selfdefense. Basic skills acquired will include blocking, shifting, punching, striking and kicking techniques. Exercises that promote muscular control, speed of movement and mental alertness will be emphasized. This course may be taken four times.

163X4 BALLROOM/SWING/SALSA .5 - 1 UNIT

UC, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

This course is designed to teach the basic principles of Ballroom/ Swing/Salsa dance. Physical skills emphasized will include rhythm, syncopation, partnering and body expression. Dance forms include Waltz, Foxtrot, East Coast Swing, West Coast Swing, Cha-Cha and Salsa. This course may be taken four times.

167X4 TAP DANCE

.5 - 1 UNIT

.5 - 1 UNIT

.5 - 1 UNIT

UC, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

This course is designed to teach the basic principles of the Tap idiom. Combinations and dances based upon Tap steps and movements is the framework of the class. Physical skills commonly used in musical and theatre productions will be emphasized. This course may be taken four times.

168X4 YOGA

UC*, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

Yoga is suited for men and women of all ages and fitness levels. This class is designed to teach the basic principles of Yoga with emphasis on the practice and mastery of Yoga postures. Through a system of Yoga exercises, students will train to develop the interconnection between mind and body. This course may be taken four times.

200F-ZX3 SELECTED TOPICS IN PHYSICAL EDUCATION .5 - 1 UNIT

UC*, CSU*, Associate Degree Applicable

Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

Courses in sports, dance or conditioning that reflect current trends. This course may be taken three times.

TEAM ACTIVITIES (PE/T)

130X4 TEAM SPORTS (CO-ED)

UC*, CSU*, Associate Degree Applicable Prerequisite: None

Laboratory: Minimum 24-48 hours per semester

This course develops playing skills for the lifetime benefit of participants in a variety of team sports. Included in instruction will be rules, basic skills, techniques, and strategies. The specific sport for each class will be announced in the class schedule. This course may be taken four times.

PHYSICS (PHYSIC)

Department: Physical Science/Mathematics Department Head: Sherri Wilson, M.S. Faculty Matthew Adams, Ph.D.

ASSOCIATE OF SCIENCE DEGREE PHYSICS

REQUIRED COURSES:		UNITS
PHYSIC 200	Physics I	6
PHYSIC 201	Physics II	6
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
	TOTAL UNITS	35
RECOMMENDED COURSE:		UNITS
MATH 254	Introduction to Ordinary Differential Equations	4

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 INTRODUCTION TO PHYSICS 4 UNITS

UC*, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

Laboratory: Minimum 48 hours per semester

Introduction to the ideas, concepts, and theories of physics including mechanics, waves, heat, electromagnetism and atomic and nuclear structure; a nonmathematical course. * No UC credit if taken after PHYSIC 110, 111, 200 or 201.

110 **GENERAL PHYSICS I 4 UNITS**

UC*, CSU, Associate Degree Applicable Prerequisites: PHYSIC 100 and MATH 103 Lecture: Minimum 48 hours per semester Laboratory: Minimum 48 hours per semester Introduction to mechanics, heat and waves. * PHYSIC 110 + 111 or 200 + 201: Maximum UC credit one series.

111 **GENERAL PHYSICS II 4 UNITS**

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UC*, CSU, Associate Degree Applicable
Prerequisite: PHYSIC 110
Lecture: Minimum 48 hours per semester
Laboratory: Minimum 48 hours per semester
Introduction to optics, electricity, and atomic and nuclear phys-
ics.
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* PHYSIC 110 + 111 or 200 + 201: Maximum UC credit one series.

200 PHYSICS I

UC*, CSU, Associate Degree Applicable Prerequisites: PHYSIC 100 and MATH 250 Lecture: Minimum 80 hours per semester Laboratory: Minimum 48 hours per semester

Study of physics, including mechanics, conservation laws, fluids, thermodynamics, wave motion, optics, electricity, magnetism, Maxwell's Equations, relativity, vector analysis, quantum theory, structure of atoms, nuclei, molecules and solids.

* PHYSIC 110 + 111 or 200 + 201: Maximum UC credit one series.

201 PHYSICS II

6 UNITS UC*, CSU, Associate Degree Applicable

Prerequisites: PHYSIC 200 and MATH 251 Lecture: Minimum 80 hours per semester Laboratory: Minimum 48 hours per semester

Study of physics, including optics, electricity, magnetism, Maxwell's Equations, relativity, vector analysis, quantum theory, structure of atoms, nuclei, molecules and solids.

* PHYSIC 110 + 111 or 200 + 201: Maximum UC credit one series.

POLITICAL SCIENCE (POLIT)

Department:	Social Sciences
Department Head:	Mario Perez, M.A.

ASSOCIATE OF ARTS DEGREE POLITICAL SCIENCE

REQUIRED	COURSES	UNITS
POLIT 100	American Politics	3
ECON 200	Principles of Macroeconomics	3
ECON 201	Principles of Microeconomics	3
GEOG110	Physical Geography	3
HIST 100	History of the United States to 1877	3
HIST 101	History of the United States 1865 to	3
PHIL 103	Present Introduction to Logic: Argument and Evidence	3
	TOTAL UNITS	21

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

6 UNITS

100 AMERICAN POLITICS

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: ENGL 101 Lecture: Minimum 48 hours per semester

This is an introductory course in the fundamentals of American government and politics, which meets the state requirements in the United States and California government. Students are introduced to basic concepts in political science; to key institutions in the American political system; to the major problems in United States foreign policy; and to political issues that confront the nation and state today.

PSYCHOLOGY (PSYCH)

Department:	Social Sciences
Department Head:	Mario Perez, M.A.
Faculty:	T.L. Brink, Ph.D.
-	Sandra Moore, Ph.D.

ASSOCIATE OF ARTS DEGREE PSYCHOLOGY

REQUIRED COURSES: UNITS		UNITS
PSYCH100	General Psychology	3
Select six u	nits from the following:	
PSYCH 102	Personal and Social Adjustment	(3)
PSYCH110	Abnormal Psychology	(3)
PSYCH112	Child and Adolescent Psychology	(3)
PSYCH150	Gerontology	(3)
Select nine	units from the following, of which at	
least six un	its must be PSYCH courses:	
PSYCH103	Psychology of Personality	(3)
PSYCH116	Psychology of Sex Roles	(3)
PSYCH118	Human Sexual Behavior	(3)
PSYCH132	Counseling and Interviewing	(3)
	Techniques	
SOC 100	Introduction to Sociology	(3)
SOC 105	Social Problems	(3)
	TOTALUNITS	18

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

080 MATH WITHOUT FEAR

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 8 hours per semester and or

Laboratory: Minimum 8 hours per semester

Examination of the problem of math anxiety. This is a course for students at any level of mathematics who have avoided the subject or have developed a fear of mathematics. A variety of appropriate mathematical and psychological topics will be discussed through individual, small group, and large group activities. This class is not a review course in mathematics. It is designed to help students in a non-intimidating environment, to recognize, understand, and deal with the fear of mathematics.

100 GENERAL PSYCHOLOGY

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Reading: Passing a standardized test of reading comprehension at or above the 12th and a lovel. MATH 000, aligibility for ENCL 101

12th grade level, MATH 090, eligibility for ENGL 101

Lecture: Minimum 48 hours per semester

Survey of the nature and scope of psychology as a science including the principles of neurophysiology, sensation, perception, learning, altered states of consciousness, memory, cognition, intelligence, language, creativity, emotion, motivation, personality, psychopathology, testing, treatment, attitudes, and human development. (CAN PSYCH 2)

102 PERSONAL AND SOCIAL ADJUSTMENT 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: PSYCH 100 Departmental Recommendation: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 101

Lecture: Minimum 48 hours per semester

Examination of human capacity to change, adapt, and cope with a variety of circumstances over the life span. Special attention is paid to the sociocultural contexts of adjustment, the role of self understanding in adjustment, stress, adult development, careers, and family issues. A variety of theoretical perspectives will be used to review healthy and unhealthy behavior patterns as well as coping techniques for day-to-day concerns or issues.

103 PSYCHOLOGY OF PERSONALITY 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: PSYCH 100

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 101, MATH 095

Lecture: Minimum 48 hours per semester

Survey of the theoretical attempts to describe and explain human nature, especially the models of the mind (and/or behavior) developed by psychoanalytic, behavioral, humanistic, and cognitive psychologists.

.5 UNIT

110 ABNORMAL PSYCHOLOGY

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: PSYCH100

Departmental Recommendations: Reading: Passing a standardized test of reading comprehension at or above the 12th grade level, ENGL 101, MATH 095

Lecture: Minimum 48 hours per semester

Survey of the field of mental disturbances: their symptomatology, prevalence, etiology, classification, diagnosis, prevention, and treatment. Psychodynamic, humanistic, cognitive, behavioral, neuroscience, and cross-cultural models will be considered.

112 CHILD AND ADOLESCENT PSYCHOLOGY 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: PSYCH 100

Departmental Recommendation: ENGL 101 Lecture: Minimum 48 hours per semester

Survey of the psychological development of individuals from infancy through adolescence, emphasizing influential psychological theories, contemporary research methods and trends, and applications of theory and research to everyday life.

113 ADULTHOOD AND OLD AGE

CSU, Associate Degree Applicable

3 UNITS

Prerequisite: PSYCH 100

Departmental Recommendations: Reading: Passing a standardized test of reading comprehension at or above the 12th grade level, ENGL 101, MATH 090, PSYCH 112

Lecture: Minimum 48 hours per semester

Physical, emotional, cognitive, clinical, social, and cultural perspectives on early adulthood, midlife, and aging, including a review of how roles change with age. Recommended for students seeking careers in human services.

116 PSYCHOLOGY OF SEX ROLES

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: PSYCH 100

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 101, MATH 095

Lecture: Minimum 48 hours per semester

Study of both traditional theories regarding sex roles and modern research results in the field of sex differences.

118 HUMAN SEXUAL BEHAVIOR

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: PSYCH 100 Departmental Recommendation: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 101

Lecture: Minimum 48 hours per semester

Survey of selected factors in human sexual behavior. The emphasis will be on the psychology of sex and an analysis of assumptions and attitudes toward human sexuality. This course will also consider theoretical perspectives and research from the areas of sociology, anthropology, and biology as well as psychology.

132 COUNSELING AND INTERVIEWING TECHNIQUES 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: PSYCH 100

Departmental Recommendations: Reading: Pass a standardized reading test at or above the 12th grade level, ENGL 101

Lecture: Minimum 48 hours per semester

Survey of and practice in counseling and interviewing techniques. This class introduces students to methods most commonly used in the helping professions.

133 GROUP DYNAMICS

3 UNITS

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: PSYCH 100

Lecture: Minimum 48 hours per semester

Examination of membership in and leadership of various kinds of groups, emphasizing factors involved in problems of communication, effective emotional responses, personal growth within groups, and the group process as a whole.

150 GERONTOLOGY

CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 101, MATH 095, PSYCH 100

Lecture: Minimum 48 hours per semester

Physical, emotional, cognitive, social, and economic perspectives on aging, including a review of how roles change with age, and the opportunities available to people over age 55. Recommended for students seeking careers in human services. This course is also offered as SOC 150.

RADIOLOGIC TECHNOLOGY (RADIOL)

Department: Department Head: Liaison Counselor: Allied Health Services Kenneth Bryson, M.A. Robert McAtee, M.A.

ASSOCIATE OF SCIENCE DEGREE RADIOLOGIC TECHNOLOGY

Radiologic Technology is a fully accredited, hospital based program operated cooperatively by Crafton Hills College and the Arrowhead Regional Medical Center (ARMC).

REQUIRED COURSES:

m Quineb (
RADIOL 100	Introduction to Radiologic Technology	.75
RADIOL 101	Medical Ethics for the Radiographer	.5
RADIOL 102	Radiographic Medical Terminology	1.5
RADIOL 103	Radiographic Positioning I	1.5
RADIOL 104	Radiologic Physics I	1.5
RADIOL 105	Radiographic Anatomy/Physiology I	1.5
RADIOL 106	Radiographic Positioning Lab I	.5
RADIOL 115A	Radiographic Clinic	11.25
RADIOL 107	Basic Radiologic Medical Techniques	1.25
RADIOL 108	Radiation Protection I	1.25
RADIOL 109	Radiologic Physics II	1.25
RADIOL 110	Radiographic Exposure I	1.25
RADIOL111	Radiographic Film Critique I	1.25
RADIOL 112	Radiographic Positioning II	1.25
RADIOL 113	Radiographic Anatomy/Physiology II	1.25
RADIOL 114	Radiographic Positioning Lab II	.5
RADIOL 115B	Radiographic Clinic II	10.5
RADIOL 200	Radiation Protection II	1.5
RADIOL 201	Radiographic Exposure II	1.5
RADIOL 202	Radiographic Film Critique II	1.5
RADIOL 203	Radiographic Positioning III	1.5
RADIOL 204	Radiographic Anatomy/Physiology II	1.5
RADIOL 205	Radiographic Exposure Lab	.5
RADIOL 213A	Radiographic Clinic III	10.75
RADIOL 207	Radiographic Imaging	1.25
RADIOL 208	Registry Review Test in Radiology	2.75
RADIOL 209	Radiographic Film Critique III - Pathology	y 1.25
RADIOL 210	Radiographic Positioning IV	1.25
RADIOL 211	Radiographic Anatomy/Physiology IV	1.25
RADIOL 212	Special Procedures in Radiology	1.25
RADIOL 213B	Radiographic Clinic IV	11
	TOTALUNITS	77.5

RADIOLOGIC TECHNOLOGY CERTIFICATE

The objective of this certificate is to prepare students to be competent practitioners in the field of radiography. Completion of the certificate will prepare the student to be eligible for the state and national board examinations, and for entry-level employment in radiography.

Radiologic Technology is an accredited, hospital-based program operated cooperatively by Crafton Hills College and the Arrowhead Regional Medical Center (ARMC).

Program applications, transcripts, and site visit forms must be filed at ARMC School of Radiologic Technology by March 1st. Application packets are available from October through January of each year.

Contact the Program Director at ARMC (909) 580-3540 for information on the program, application materials, and interview process.

Admissions: The Admissions Committee selects students on the basis of their college grades, satisfactory completion of prerequisite courses, and a personal interview. Interviews are granted to those applicants who have completed (or have in progress) all prerequisite courses with a minimum 2.5 GPA and have submitted a complete application package with the non-refundable fee. The Admissions Committee selects nine students and three alternates.

MININUM QUALIFICATIONS

To be considered for a personal interview, the applicant must: Submit a completed application package and fee; Provide a copy of their High School Diploma or GED; Show documentation of twelve hours of clinical observation; Successfully completed or have in progress the college prerequisites listed below:

PREREQUISITES

UNITS

*AH 090	Survey of Radiologic	1.5
	Technology	
*AH 101	Medical Terminology	3.0
*ANAT 101	Essentials of Human Anatomy	4.0
	and Physiology	
*ENGL 101	Freshman Composition	4.0
*CHEM 101	Introduction to Chemistry	4.0
*CIS 101	Introduction to Computers	3.0
	and Information Technology	
*MATH 090	Elementary Algebra	4.0

*Students may substitute equivalent or advanced level courses.

REQUIRED COURSES

FIRST SEMEST	TER	
RADIOL 100	Introduction to Radiologic	.75
	Technology	
RADIOL 101	Medical Ethics for the	.50
	Radiographer	
RADIOL 102	Radiographic Medical	1.50
	Terminology	
RADIOL 103	Radiographic Positioning I	1.50
RADIOL 104	Radiographic Physics I	1.50
RADIOL 105	Radiographic Anatomy/	1.50
	Physiology I	
RADIOL 106	Radiographic Positioning Lab I	.50
RADIOL 115A	Radiographic Clinic I	11.25

SECOND SEMESTER

SECOND SEM	LOILIN	
RADIOL 107	Basic Radiologic Medical	1.25
	Techniques	
RADIOL 108	Radiation Protection I	1.25
RADIOL 109	Radiologic Physics II	1.25
RADIOL 110	Radiographic Exposure I	1.25
RADIOL 111	Radiographic Film Critique I	1.25
RADIOL 112	Radiographic Positioning II	1.25
RADIOL 113	Radiographic Anatomy/	1.25
	Physiology II	
RADIOL 114	Radiographic Positioning Lab I	I .50
RADIOL 115B	Radiographic Clinic II	10.50
THIRD SEMES	TER	
RADIOL 200	Radiation Protection II	1.50
RADIOL 201	Radiographic Exposure II	1.50
RADIOL 202	Radiographic Film Critique II	1.50
RADIOL 203	Radiographic Positioning III	1.50
RADIOL 204	Radiographic Anatomy/	1.50
	Physiology III	
RADIOL 205	Radiographic Exposure Lab	.50
RADIOL 213A	Radiographic Clinic III	10.75
FOURTH SEM	ESTER	
RADIOL 207	Radiographic Imaging	1.25
RADIOL 208	Registry Review Test in	2.75
	Radiology	
RADIOL 209	Radiographic Film Critique III -	- 1.25
	Pathology	
RADIOL 210	Radiographic Positioning IV	1.25
RADIOL 211	Radiographic Anatomy/	1.25
	Physiology	
RADIOL 212	Special Procedures in	1.25
	Radiology	
RADIOL 213B	Radiographic Clinic IV	11.00
	TOTAL	77.50

100 INTRODUCTION TO RADIOLOGIC TECHNOLOGY

.75 UNIT

Associate Degree Applicable

Prerequisite: Must be pre-selected into the X-Ray Technology program

Corequisites: RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A Lecture: Minimum 12 hours per semester

Introduction to the general structure of medicine specifically applicable to radiologic technology; departmental administration, office procedures, radiation protection, equipment care, and basic medical techniques.

101 MEDICAL ETHICS FOR THE RADIOGRAPHER

.5 UNIT

Associate Degree Applicable

Prerequisite: Must be pre-selected into the X-Ray Technology program

Corequisites: RADIOL 100, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A Lecture: Minimum 8 hours per semester

Study and practice of professional ethics relative to radiologic technology; emphasis on personal appearance, attitudes, hygiene, and the code of ethics for radiologic technologists.

102 RADIOGRAPHIC MEDICAL TERMINOLOGY 1.5 UNITS

Associate Degree Applicable

Prerequisite: Must be pre-selected into the X-Ray Technology program

Corequisites: RADIOL 100, RADIOL 101, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A Lecture: Minimum 24 hours per semester

Introduction to the written and spoken language of medicine, including the elements of medical terminology, terms abbreviations, spelling, pronunciation and interpreting radiographic requests written in medical phraseology.

103 RADIOGRAPHIC POSITIONING I 1.5 UNITS

Associate Degree Applicable

Prerequisite: Must be pre-selected into the X-Ray Technology program

Corequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A

Lecture: Minimum 24 hours per semester

Study of various anatomical positions necessary to demonstrate specific anatomical parts for diagnostic evaluation; emphasis on chest, abdomen, upper and lower extremities and shoulder girdle.

104 RADIOLOGIC PHYSICS I 1.5 UNITS

Associate Degree Applicable

Prerequisite: Must be pre-selected into the X-Ray Technology program.

Corequisites: RADIOL 100, RADIOL 101, RADIOL 102,

RADIOL 103, RADIOL 105, RADIOL 106, RADIOL 115A Lecture: Minimum 24 hours per semester

Study of basic radiologic physics including units of measurement, energy, matter, atomic structure, magnetism and other concepts related to the production and control of high voltage.

105 RADIOGRAPHIC ANATOMY/PHYSIOLOGY I 1.5 UNITS

Associate Degree Applicable

Prerequisite: Must be pre-selected into the X-Ray Technology program

Corequisites: RADIOL 100, RADIOL 101, RADIOL 102,

RADIOL 103, RADIOL 104, RADIOL 106, RADIOL 115A Lecture: Minimum 24 hours per semester

Study of basic human anatomy and physiology pertinent to Radiology.

106 RADIOGRAPHIC POSITIONING LAB I .5 UNIT

Associate Degree Applicable

Prerequisite: Must be pre-selected into the X-Ray Technology program

Corequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 115A Laboratory: Minimum 24 hours per semester

Practice in positioning various anatomical parts for specific radiographic examinations.

107 BASIC RADIOLOGIC MEDICAL TECHNIQUES 1.25 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A

Corequisites: RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Lecture: Minimum 22 hours per semester

Study of basic nursing techniques and methods of patient care for Radiologic Technologists.

108 RADIATION PROTECTION I 1.25 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A

Corequisites: RADIOL 107, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Lecture: Minimum 22 hours per semester

Study of the basic principles and application of radiation protection, physics, and radiation monitoring devices.

109 RADIOLOGIC PHYSICS II 1.25 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, 104, 105, 106, 115A

Corequisites: RADIOL 107, RADIOL 108, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Lecture: Minimum 22 hours per semester

Study of the production of X-rays, multiple energy transformation required for radiation production, the mechanics of interaction with matter, X-ray tubes, rectifiers, X-ray circuits, and the history of X-ray tubes.

110 RADIOGRAPHIC EXPOSURE I 1.25 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A

Corequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Lecture: Minimum 22 hours per semester

Study of the fundamentals of radiographic exposure techniques, image formation, and technical conversions pertaining to radiography.

111 RADIOGRAPHIC FILM CRITIQUE I 1.25 UNITS Associate Degree Applicable

Prerequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A

Corequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Lecture: Minimum 22 hours per semester

Introduction to analyzing radiographic examinations with emphasis on improving film quality and using proper identification labels.

112RADIOGRAPHIC POSITIONING II1.25 UNITSAssociate Degree Applicable

Prerequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A

Corequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 113, RADIOL 114, RADIOL 115B

Lecture: Minimum 22 hours per semester

Study and demonstration of various anatomical positions necessary to demonstrate specific anatomical parts for diagnostic evaluation; emphasis on pelvic structures and vertebral column.

113 RADIOGRAPHIC ANATOMY/PHYSIOLOGY II 1.25 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A

Corequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 114, RADIOL 115B

Lecture: Minimum 22 hours per semester Study of human anatomy and physiology pertinent to radiology.

114 RADIOGRAPHIC POSITIONING LAB II .5 UNIT Associate Degree Applicable

Prerequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A

Corequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 115B

Laboratory: Minimum 24 hours per semester

Practice of positioning anatomical parts for specific radiographic examinations.

115A RADIOGRAPHIC CLINIC I 11.25 UNITS

Associate Degree Applicable

Prerequisites: Must be pre-selected into the X-Ray Technology program

Corequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106

Clinic: Minimum 900 hours per semester Observation and supervised clinical experience; emphasis on the

development of primary basic skills in radiologic technology.

115B RADIOGRAPHIC CLINIC II 10.5 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 100, RADIOL 101, RADIOL 102, RADIOL 103, RADIOL 104, RADIOL 105, RADIOL 106, RADIOL 115A

Corequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114

Clinic: Minimum 840 hours per semester

Practice and development of basic radiographic skills within a hospital environment.

200 **RADIATION PROTECTION II** 1.5 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Corequisites: RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 205, RADIOL 213A

Lecture: Minimum 24 hours per semester

Study of the biological effects of radiation, cell structure, ionizing radiation, and government regulations regarding its use.

201 **RADIOGRAPHIC EXPOSURE II 1.5 UNITS**

Associate Degree Applicable

Prerequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114. RADIOL 115B

Corequisites: RADIOL 200, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 205, RADIOL 213A

Lecture: Minimum 24 hours per semester

Study of the principles of radiographic exposure methods and procedures pertaining to radiographic technology.

1.5 UNITS **RADIOGRAPHIC FILM CRITIQUE II** 202 Associate Degree Applicable

Prerequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Corequisites: RADIOL 200, RADIOL 201, RADIOL 203, RADIOL 204, RADIOL 205, RADIOL 213A

Lecture: Minimum 24 hours per semester

Analysis of radiographic examinations with emphasis on improving each student's ability to identify anatomical structures on radiographs.

203 RADIOGRAPHIC POSITIONING III **1.5 UNITS**

Associate Degree Applicable

Prerequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Corequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 204, RADIOL 205, RADIOL 213A

Lecture: Minimum 24 hours per semester

Study and demonstration of various anatomical positions necessary to demonstrate specific anatomical parts for diagnostic evaluation; emphasis on the thorax and cranium.

204 RADIOGRAPHIC ANATOMY/PHYSIOLOGY III

1.5 UNITS

Associate Degree Applicable Prerequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Corequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 205, RADIOL 213A

Lecture: Minimum 24 hours per semester

Study of human anatomy and physiology pertinent to radiology.

RADIOGRAPHIC EXPOSURE LAB .5 UNIT 205

Associate Degree Applicable

Prerequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Corequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 213A

Laboratory: Minimum 24 hours per semester

Demonstration and experiments pertaining to the fundamentals of exposure techniques, image formation and technical conversations; demonstration of photographic and geometric properties of radiographic quality.

207 RADIOGRAPHIC IMAGING 1.25 UNITS

Associate Degree Applicable Prerequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 205, RADIOL 213A

Corequisites: RADIOL 208, RADIOL 209, RADIOL 210, RADIOL 211, RADIOL 212, RADIOL 213B

Lecture: Minimum 22 hours per semester

Study of the history and principles of radiology including nuclear medicine, clinical ultra-sonography, tomography, radiation therapy, computer tomography, and other imaging modalities.

208 REGISTRY REVIEW TEST IN RADIOLOGY **2.75 UNITS**

Associate Degree Applicable

Prerequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 205, RADIOL 213A Corequisites: RADIOL 207, RADIOL 209,

RADIOL 210, RADIOL 211, RADIOL 212, RADIOL 213B Lecture: Minimum 44 hours per semester

Review and testing of all Radiologic Technology classes in preparation for board examination.

209 RADIOGRAPHIC FILM CRITIQUE III - PATHOLOGY **1.25 UNITS**

Associate Degree Applicable

Prerequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 205, RADIOL 213A Corequisites: RADIOL 207, RADIOL 208,

RADIOL 210, RADIOL 211, RADIOL 212, RADIOL 213B Lecture: Minimum 22 hours per semester

Study of disease, basic concepts of pathology, pathological conditions of the body and their impact on the radiographic process.

210 RADIOGRAPHIC POSITIONING IV **1.25 UNITS**

Associate Degree Applicable

Prerequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 205, RADIOL 213A Corequisites: RADIOL 207, RADIOL 208, RADIOL 209,

RADIOL 211, RADIOL 212, RADIOL 213B Lecture: Minimum 22 hours per semester

Study and demonstration of various anatomical positions necessary to demonstrate specific anatomical parts for diagnostic evaluations; emphasis on osseious structures of the face; genitourinary and gastrointestinal systems.

211 RADIOGRAPHIC ANATOMY/PHYSIOLOGY IV 1.25 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 205, RADIOL 213A Corequisites: RADIOL 207, RADIOL 208, RADIOL 209,

RADIOL 210, RADIOL 212, RADIOL 213B

Lecture: Minimum 22 hours per semester

Advanced study and review of human anatomy and physiology pertinent to radiology.

212 SPECIAL PROCEDURES IN RADIOLOGY 1.25 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 205, RADIOL 213A Corequisites: RADIOL 207, RADIOL 208, RADIOL 209,

RADIOL 210, RADIOL 211, RADIOL 213B

Lecture: Minimum 22 hours per semester

Study of the fundamentals of angiography and the special procedures, equipment, positioning, and techniques involved in producing diagnostic radiographs.

213A RADIOGRAPHIC CLINIC III 10.75 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 107, RADIOL 108, RADIOL 109, RADIOL 110, RADIOL 111, RADIOL 112, RADIOL 113, RADIOL 114, RADIOL 115B

Corequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 205

Clinic: 872 hours per semester

Advanced clinical experience; emphasis on further development of skills in radiologic technology.

213B RADIOGRAPHIC CLINIC IV 11 UNITS

Associate Degree Applicable

Prerequisites: RADIOL 200, RADIOL 201, RADIOL 202, RADIOL 203, RADIOL 204, RADIOL 205, RADIOL 213B Corequisites: RADIOL 207, RADIOL 208, RADIOL 209, RADIOL 210, RADIOL 211, RADIOL 212

Clinic: 884 hours per semester

Advanced clinical experience; emphasis on perfecting learned skills and techniques of radiography.

Reading and Study Skills (READ)

Department:Language ArtsDepartment Head:Mark Snowhite, M.A.Faculty:Lynn Lowe, M.A.

078X2 ADVANCED READING

3 UNITS

Associate Degree Applicable Prerequisite: None

Departmental Recommendation: A minimum score of 65 on the reading portion of the college placement test or minimum of 10th grade level on the Nelson-Denny Reading Test Lecture: Minimum 48 hours per semester

Designed to enhance students' reading skills, this course involves attending lectures and doing in-class assignments. Students must also complete individualized laboratory activities designed to increase vocabulary and comprehension, based on assessed reading ability. This course may be taken two times.

091 COLLEGE STUDY SKILLS

1 - 3 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester or Laboratory: Minimum 48-144 hours per semester

Instruction in the skills of listening, notetaking, class preparation and participation, organizing and analyzing textbook material, and using the library. Provides methods for the improvement of concentration, memory and test-taking.

925X2 INTRODUCTION TO READING 3 UNITS

Not Applicable to the Associate Degree

Prerequisite: None Departmental Recommendation: Score between 0-34 on the reading portion of the CHC assessment test, or 4th, 5th, 6th grade level on the Nelson-Denny Reading Test

Lecture: Minimum 40 hours per semester Laboratory: Minimum 24 hours per semester

The first in a sequence of courses that introduce skills of vocabulary development, reading comprehension, phonetic awareness and usage. Practice in reading passages at a developmental level. This course may be taken two times.

956X2 INTERMEDIATE READING 3 UNITS

Not Applicable to the Associate Degree

Prerequisite: None

Departmental Recommendation: Score between 35–64 on the reading portion of the CHC assessment test, or 7th, 8th, or 9th grade level on the Nelson-Denny Reading Test

Lecture: Minimum 40 hours per semester

Laboratory: Minimum 24 hours per semester

The second in a sequence of courses that introduce skills of vocabulary development, reading comprehension, phonetic awareness and usage. Practice in reading passages at an intermediate level. This course may be taken two times.

REAL ESTATE (REALST)

Department: Business Dean: Donna Ferracone, M.A.

100 REAL ESTATE PRINCIPLES

3 UNITS

CSU, Associate Degree Applicable Prerequisite: None Departmental Recommendations:

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th Grade level, ENGL 015

Lecture: Minimum 48 hours per semester

Fundamentals of real estate covering basic laws and principles of California real estate. Required course for Real Estate Sales License. May also be used as one of the courses for the Broker's License.

Religious Studies

(RELIG)

Department: Social Sciences Department Head: Mario Perez, M.A. Faculty: J. Christopher Biffle, M.A. T.L. Brink, Ph.D.

ASSOCIATE OF ARTS DEGREE RELIGIOUS STUDIES

REQUIREI	COURSES:	UNITS
ENGL 150	Classical Mythology	3
RELIG 100	Introduction to Religious Studies	3
RELIG 101	Introduction to World Religions	3
HIST 135	Religion in America	3
HIST 160	History of Western Civilization:	(3)
	From the Neolithic Revolution to the	
	Renaissance	
	OR	
HIST 161	History of Western Civilization:	(3)
	From the Renaissance to the Cold Wa	r
PHIL 101	Introduction to Philosophy	3
PHIL 103	Introduction to Logic: Argument and	3
	Evidence	
	TOTALUNITS	21

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 INTRODUCTION TO RELIGIOUS STUDIES 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, eligibility for ENGL 101

Lecture: Minimum 48 hours per semester

A study of the major components that all religions have in common. It explores such elements as the holy, sacred stories, ritual, faith, iconography, religious leaders, scripture, morality and ethics, individual and community in religious tradition, the arts and media, and phenomenology. An interdisciplinary approach to religion, utilizing a diversity of methodologies to integrate historical research and practical application.

101 INTRODUCTION TO WORLD RELIGIONS 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a Nelson-Denny or comparable test at or above the 12th grade level, ENGL 101

Lecture: Minimum 48 hours per semester

Origins, myths, doctrines, practices, historical development and contemporary concerns of the major world religions, with particular attention to Hindu, Taoist, Confucian, Judaic, Christian and Islamic traditions.

110 PRIMITIVE RELIGIONS

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Comparative study of supernaturalism in traditional societies, both past and present, including witchcraft, magic, totemism, mythology and ritual nativistic movements, and the religious context of drug usage. Prehistoric religion will be examined, as well as the belief systems of selected tribal peoples. This course is also offered as ANTHRO 110.

135 RELIGION IN AMERICA 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the 12th grade level, ENGL 101

Lecture: Minimum 48 hours per semester

Study of the principal groups, figures, issues, and trends in religion from colonial times to the present, covering such topics as the Puritans, the growth of religious liberty in America, religion and social protest, the African-American religious experience, Catholic-Protestant-Jew, and contemporary religious phenomena. This course is also offered as HIST 135.

175 LITERATURE AND RELIGION OF THE BIBLE

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Study of the English Bible as literature and as religion. Includes the examination of the types of literature found in the Bible, and the historical and religious context in which the literature was developed. Provides an extensive reading of the two testaments. This course is also offered as ENGL 175.

176 JESUS AND HIS INTERPRETERS 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a standardized test of reading comprehension at or above the12th grade level, ENGL 101 Lecture: Minimum 48 hours per semester

Study of images and interpretations of Jesus with three principle divisions: Jesus and the gospels or biblical tradition; Jesus and the historians and theologians for the Jesus of history; and Jesus and the arts, that is, Jesus in art, music, film, and the literary arts (e.g., novels, poems, plays).

Respiratory **C**are (Resp)

Department: Department Head: Faculty: Allied Health Services Kenneth Bryson, M.A. Reynaldo Bell, B.S. Tony Brainard, B.A. Kenneth Bryson, M.A. Bradley Franklin, M.Ed. Arnold Kosmatka, Ed.D. Katharyn Taylor, B.S. Robert McAtee, M.A.

Liaison Counselor:

ASSOCIATE OF SCIENCE DEGREE RESPIRATORY CARE

Crafton Hills College offers programs in Certified Respiratory Therapist (CRT) and Registered Respiratory Therapist (RRT). Admission is open to all students who have completed the prerequisite course(s). Contact the Respiratory Care Program Director for more information about application materials and registration pass.

PREREQUI	SITE COURSE:	UNITS
RESP050	Introduction to Respiratory Care	2
	TOTAL UNITS	2
RECOMME	NDED COURSES:	UNITS
	NDED COURSES: Essentials of Human Anatomy and	UNITS 4

CERTIFIED RESPIRATORY THERAPIST (CRT) CERTIFICATE

Admissions: Enrollment is limited to 40 students. Registration passes will be issued on a point system. Students completing the required RESP 050, AH 101, and ANAT 101 will have three points and first call on a registration pass. Students completing the required RESP 050 as well as ANAT 101 or AH 101 will have two points and second call on a registration pass. It is definitely to a student's advantage to have all three points.

Contact the Respiratory Care Program Director for information on application materials and registration pass at 389-3286.

PRE-ADMISSION COURSES

Required prior to admission into program.

RESP 050	Introduction to Respiratory	2.0
RESP 051X4	Care Cardiopulmonary	1.0
	Resuscitation: Basic Life	
	Support Healthcare Provider	
AH 101	Medical Terminology	3.0
ANAT 101	AND/OR Essentials of Human Anatomy	4.0
ANAI 101	and Physiology	4.0
REQUIRED C	OURSES	
*AH 101	Medical Terminology	3.00
*ANAT 101	Essentials of Human	4.00
ANAI 101	Anatomy and Physiology	4.00
*ENGL 015	Preparation for College	4.00
ENGL 015	Writing	4.00
*MATH 090	Elementary Algebra	4.00
*MICRO 102	Introductory Microbiology	4.00
RESP 050	Introductory Microbiology Introduction to Respiratory	2.00
KESI 050	Care	2.00
RESP 051X4	Cardiopulmonary	1.00
KESF UJIA4	Resuscitation: Basic Life	1.00
	Support Healthcare Provider	
RESP 101	Fundamentals of Respiratory	4.00
KESF 101	Care I	4.00
RESP 102	Fundamentals of Respiratory	10.50
KESP 102	Care Skills I	10.50
RESP 103	Pulmonary Assessment and	2 00
KESP 105		3.00
RESP 104	Pharmacology	2.50
KESP 104	Respiratory Care Clinical Application I	2.30
RESP 105		4.00
KESP 103	Fundamentals of Respiratory Care II	4.00
RESP 106	Fundamentals of Respiratory	5.25
KESP 100	Care Skills II	5.25
RESP 108		5.25
KESF 100	Respiratory Care Clinical Application II	5.25
RESP 110X4	Clinical Medicine I	1.50
RESP 11074 RESP 112	Care of the High Risk Neonate	4.00
NEOF 112	TOTAL	62.00
	IUIAL	02.00
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*Students may substitute equivalent or advanced level courses.

NOTES:

- Program begins Fall Semester only.
- Students must complete the course work for the CRT Program within a five-year period in order to receive a Certificate of Completion.
- A successful passing score on the Self-Assessment Entry-Level Examination is required to receive a Certificate of Completion in the CRT Program.

- An A.S. Degree in Respiratory Care in addition to the Certificate of Completion for the CRT Program is required to take the Entry-Level Examination for a license to work.
- All courses applied to the A.S. Degree in Respiratory Care and the Certificate of Completion must be completed with a grade of "C" or higher.
- The A.S. Degree in Respiratory Care must be awarded before the awarding of the Certificate of Completion.

REGISTERED RESPIRATORY THERAPIST (RRT) CERTIFICATE

Admissions: Open to all students who have completed the CRT Program with a "C" or higher. Students who possess a valid California Respiratory Care Practitioner License or who have been accepted into another RRT Program may petition Respiratory Care faculty for admission to the program.

Contact the Respiratory Care Program Director for information on application materials at 389-3286.

Completion of all CRT and RRT required courses with a "C" or higher, a successful passing score on both the Registry Written and the Clinical Simulation Self-Assessment Examinations, CHEM 101 with a grade "C" or higher, and completion of the Associate of Science Degree with a major in Respiratory Care qualify the student for the Registered Respiratory Therapist Certificate.

REQUIRED COURSES

*AH 101	Medical Terminology	3.0
*ANAT 101	Essentials of Human Anatomy	4.0
*CHEM 101	Introduction to Chemistry	4.0
*ENGL 015	Preparation for College Writing	4.0
*MATH 090	Elementary Algebra	4.0
*MICRO 102	Introductory Microbiology	4.0
RESP 050	Introduction to Respiratory Care	2.0
RESP 051X4	Cardiopulmonary	1.0
	Resuscitation: Basic Life	
	Support Healthcare Provider	
RESP 101	Fundamentals of Respiratory	4.0
	Care I	
RESP 102	Fundamentals of Respiratory	10.5
	Care Skills I	
RESP 103	Pulmonary Assessment and	3.0
	Pharmacology	
RESP 104	Respiratory Care Clinical	2.5
	Application I	
RESP 105	Fundamentals of Respiratory	4.0
	Care II	
RESP 106	Fundamentals of Respiratory	5.25
	Care Skills II	
RESP 108	Respiratory Care Clinical	5.25
	Application II	
RESP 110X4	Clinical Medicine I	1.50
RESP 112	Care of the High Risk Neonate	4.00
RESP 201	Advanced Theory of	4.00
	Respiratory Care I	
RESP 202	Advanced Respiratory Care	4.00
	Skills Lab I	
RESP 203	Physiologic Basis of	5.00
1000	Respiratory Disease I	2.00
RESP 204	Advanced Respiratory Care	5.25
REDI 201	Clinical Application I	0.20
RESP 205	Introduction to Pharmacology	3.00
NEDI 205	and Drug Therapy	5.00
RESP 206	Advanced Theory of	4.00
11201 200	Respiratory Care II	1.00
	Respiratory Care II	

RESP 207	Physiologic Basis of	5.00
	Respiratory Disease II	
RESP 208	Advanced Respiratory Care	5.25
	Clinical Application II	
RESP 211X4	Clinical Medicine II	1.50
RESP 218	Advanced Respiratory Care	4.00
	Laboratory II	
	TOTAL	107.00

*Students may substitute equivalent or advanced level courses.

NOTES:

- Program begins Fall Semester only.
- All courses in Respiratory Care must be completed within a fiveyear period.
- A successful passing score on both the Registry Written and the Clinical Simulation Self-Assessment Examinations are required to receive a two-year Certificate of Completion from the RRT Program.
- CHEM 101 is also required for the certificate of completion.
- All courses applied to the A.S. Degree in Respiratory Care and the Registered Respiratory Therapy Certificate must be completed with a grade of "C" or higher.
- The A.S. Degree in Respiratory Care must be awarded before the awarding of the Registered Respiratory Therapy Certificate of Completion.

050 INTRODUCTION TO RESPIRATORY CARE 2 UNITS

Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 32 hours per semester

Introduction and orientation to the field of Respiratory Care, the professional organizations, the regulatory bodies, and the policies that govern respiratory treatment. Also provides the preentry student with program information critical to the decision to enter the Respiratory Care Program.

051X4 CARDIOPULMONARY RESUSCITATION: BASIC LIFE SUPPORT HEALTHCARE PROVIDER 1 UNIT

Associate Degree Applicable

Lecture: Minimum 8 hours per semester

Laboratory: Minimum 24 hours per semester

Basic life support is that particular phase of emergency cardiac care that either: (a) Prevents circulatory or respiratory arrest (or insufficiency) through prompt recognition and intervention, early entry into the Emergency Medical Services system, or both, or (b) Externally supports the circulation and respiration of a victim of cardiac or respiratory arrest through cardiopulmonary resuscitation. A Basic Life Support Healthcare Provider is one who has successfully completed the written examination and all performance (skills) testing of an American Heart Association Basic Life Support Healthcare Provider the art Association requirements. Course completion is valid for a maximum of two years. This course may be taken four times.

101 FUNDAMENTALS OF RESPIRATORY CARE I 4 UNITS

Associate Degree Applicable

Prerequisites: Acceptance into the Respiratory Care Program and completion of RESP 051X4 with a grade of "C" or higher Corequisites: RESP 102, RESP 103, RESP 104

Departmental Recommendations: ANAT 101 and MICRO 102 Lecture: Minimum 64 hours per semester

Theoretical application of diagnostic techniques, equipment, medications, and procedures based on the national *Clinical Practice Guidelines* as well as local standards of practice. Provides basic preparation of the respiratory care student consisting of: an introduction to basic respiratory physiology, pharmacology, arterial blood gas interpretation, infection control, and basis for treatment modalities, including physical principles relating to medical gases and equipment.

102 FUNDAMENTALS OF RESPIRATORY CARE SKILLS I 10.5 UNITS

Associate Degree Applicable

Prerequisites: Acceptance into the Respiratory Care Program and completion of RESP 051X4 with a grade of "C" or higher Corequisites: RESP 102, RESP 103, RESP 104

Lecture: Minimum 128 hours per semester

Laboratory: Minimum 128 hours per semester

Laboratory application of diagnostic techniques, equipment, medications, and procedures based on the national *Clinical Practice Guidelines* as well as local standards of practice. Provides an opportunity to learn and practice the required basic respiratory care clinical skills in a simulated patient-care environment including: medical gas handling, analysis, and delivery; patient assessment techniques; aerosol and humidification application; hyperinflation application; airway management techniques; pulmonary function; blood gas analysis; diagnostic tests interpretation; and therapeutic assessment.

103 PULMONARY ASSESSMENT AND PHARMACOLOGY 3 UNITS

Associate Degree Applicable

Prerequisites: Acceptance into the Respiratory Care Program and completion of RESP 051X4 with a grade of "C" or higher Corequisites: RESP 101, RESP 102, RESP 104

Lecture: Minimum 48 hours per semester

Preparation for the patient encounter through the understanding of basic interviewing and assessing techniques essential to the safe and effective practice of respiratory care. This course offers an introduction to basic medical terminology, followed by an intense study of terms specific to pulmonary medicine. Basic interview techniques and physical assessment of the patient are built upon this foundation.

104 RESPIRATORY CARE CLINICAL APPLICATION I 2.5 UNITS

Associate Degree Applicable

Prerequisites: Acceptance into the Respiratory Care Program and completion of RESP 051X4 with a grade of "C" or higher Corequisites: RESP 101, RESP 102, RESP 103 Lecture: Minimum 18 hours per semester

Clinic: Minimum 126 hours per semester

Clinical application of diagnostic techniques, equipment, medications, and procedures based on the national *Clinical Practice Guidelines* as well as local standards of practice. Follows the First-Year Clinical Syllabus, under continuous direct supervision, to validate competence in the skills required to care for patients in a variety of healthcare settings.

105 FUNDAMENTALS OF RESPIRATORY CARE II 4 UNITS

Associate Degree Applicable

Prerequisites: RESP 101, 102, 103, and 104 with a grade of "C" or higher

Corequisites: RESP 106, RESP 108 and RESP 110X4 Lecture: Minimum 64 hours per semester

Theoretical application of diagnostic techniques, equipment, medications, and procedures based on the national *Clinical Practice Guidelines* as well as local standards of practice. Provides basic preparation of the respiratory care student that includes: introduction to cardiopulmonary dysfunction, pulmonary function testing, respiratory failure, ventilatory support and management, home care, and assessment and therapeutic treatment of the patient.

106 FUNDAMENTALS OF RESPIRATORY CARE SKILLS II 5.25 UNITS

Associate Degree Applicable

Prerequisites: RESP 101, RESP 102, RESP 103, and RESP 104 with a grade of "C" or higher

Corequisites: RESP 105, RESP 108, RESP 110X4 Lecture: Minimum 64 hours per semester

Clinic: Minimum 64 hours per semester

Laboratory application of diagnostic techniques, equipment, medications, and procedures based on the national *Clinical Practice Guidelines* as well as local standards of practice. Provides an opportunity to learn and practice the required basic respiratory care clinical skills in a simulated patient-care environment, including: recommending therapeutics, recommending therapeutic modification or discontinuance, arterial blood gas drawing and analysis, oximetry, co-oximetry, mechanical ventilation and related adjuncts, pulmonary function testing, positive end-expiratory pressure, continuous positive airway pressure, bi-level positive airway pressure, and electrocardiograms.

108 RESPIRATORY CARE CLINICAL APPLICATION II 5.25 UNITS

Associate Degree Applicable

Prerequisites: RESP 101, RESP 102, RESP 103, and RESP 104 with a grade of "C" or higher

Corequisites: RESP 105, RESP 106, RESP 110X4

Lecture: Minimum 34 hours per semester

Clinic: Minimum 238 hours per semester

Clinical application of diagnostic techniques, equipment, medications, and procedures based on the national Clinical Practice Guidelines as well as local standards of practice. Continues to follow the First-Year Clinical Syllabus, providing instruction under direct supervision, to validate competence in the skills required to care for patients in a variety of healthcare settings. Student must demonstrate the ability to carry a full workload (16 units) in a critical care area for three assigned days.

109AX2 CLINICAL REFRESHER: CLINICAL **APPLICATION I 1.75 UNITS**

Associate Degree Applicable

Prerequisite: RESP 104 with a grade of "C" or higher Lecture: Minimum 13 hours per semester

Clinic: Minimum 91 hours per semester

Continued clinical application of diagnostic techniques, equipment, medications, and procedures based on the national Clinical Practice Guidelines as well as local standards of practice. Follows the First-Year Clinical Syllabus, under continuous direct supervision, to validate competence in the skills required to care for patients in a variety of healthcare settings. Offered for Credit or No Credit only. This course may be taken two times.

109BX2 CLINICAL REFRESHER: CLINICAL APPLICATION II

Associate Degree Applicable

2.5 UNITS

Prerequisite: RESP 108 with a grade of "C" or higher Lecture: Minimum 18 hours per semester Clinic: Minimum 126 hours per semester

Continued clinical application of diagnostic techniques, equipment, medications, and procedures based on the national Clinical Practice Guidelines as well as local standards of practice. Continues to follow the First-Year Clinical Syllabus, providing instruction under direct supervision, to validate competence in the skills required to care for patients in a variety of healthcare settings. Student must demonstrate the ability to carry a full workload (16 units) in a critical care area for three assigned days. Offered for Credit or No Credit only. This course may be taken two times.

110X4 CLINICAL MEDICINE I

1.5 UNITS

Prerequisite: None

Associate Degree Applicable

Lecture: Minimum 24 hours per semester

Selected topics related to the practice of cardiopulmonary medicine. Combination of lecture and case presentations provided by physicians who help define the clinical practice of pulmonary medicine. It is highly recommended that a student, upon entering this class, (1) be a Licensed Respiratory Care Practitioner in the State of California OR (2) be concurrently enrolled in Crafton Hills College's Certified Respiratory Therapist Program. This course may be taken four times.

112 CARE OF THE HIGH RISK NEONATE 4 UNITS

Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 64 hours per semester

Preparation of the student for clinical practice in Neonatal and Pediatric Intensive Care Units: A special focus of this class is understanding the extent to which the immature cardiopulmonary system can be augmented by the application of diagnostic techniques, equipment, and procedures. (Formerly RESP 212)

201 ADVANCED THEORY OF RESPIRATORY CARE I 4 UNITS

Associate Degree Applicable

Prerequisites: RESP 051X4 (only if Basic Life Support (BLS) Healthcare Provider card has expired), RESP 101, RESP 102, RESP 103, RESP 104, RESP 105, RESP 106, RESP 108, RESP 110X4, and RESP 112 with a grade of "C" or higher

Corequisites: RESP 202, RESP 203, RESP 204, RESP 205 Lecture: Minimum 64 hours per semester

The course covers advanced assessment, diagnosis, and treatment of diseases and conditions as they relate to the practice of respiratory care. Topics include: cardiopulmonary anatomy, continuous mechanical ventilation, patient assessment, oxygen transport, oxygen monitoring equipment, hyperbaric oxygen therapy, and interpersonal relationships regarding Respiratory Care Practitioner diversity, and ethics.

202 ADVANCED RESPIRATORY CARE SKILLS LAB I **4 UNITS**

Associate Degree Applicable Prerequisites: RESP 101, RESP 102, RESP 103, RESP 104, RESP 105, RESP 106, RESP 108, RESP 110X4, and RESP 112 with a grade of "C" or higher Corequisites: RESP 201, RESP 203, RESP 204, RESP 205 Lecture: Minimum 32 hours per semester

Laboratory: Minimum 96 hours per semester

Advanced assessment, diagnosis, and treatment of diseases and conditions as they relate to the practice of respiratory care in the simulated patient-care environment. Topics and skills include: advanced medical gas handling, analysis, and delivery; patient assessment techniques; aerosol and humidification application; hyperinflation techniques; airway management techniques; pulmonary function techniques; arterial puncture and lines; neonatal cardiopulmonary resuscitation; mechanical ventilation (adult and infant); and the electrocardiogram.

203 PHYSIOLOGIC BASIS OF RESPIRATORY DISEASE I **5 UNITS**

Associate Degree Applicable

Prerequisites: RESP 101, RESP 102, RESP 103, RESP 104, **RESP 105, RESP 106, RESP 108, RESP 110X4, and** RESP 112 with a grade of "C" or higher Corequisites: RESP 201, RESP 202, RESP 204, RESP 205

Lecture: Minimum 80 hours per semester

Applied cardiopulmonary, renal, and neuropathophysiology related to the diagnosis and treatment of diseases the therapist will encounter in the clinical setting. The case history approach is used wherever possible in an effort to assist in preparation for National Board for Respiratory Care, Inc. examinations.

204 ADVANCED RESPIRATORY CARE CLINICAL APPLICATION I 5.25 UNITS

Associate Degree Applicable

Prerequisites: RESP 101, RESP 102, RESP 103, RESP 104, RESP 105, RESP 106, RESP 108, RESP 110X4, and RESP 112 with a grade of "C" or higher

RESP 112 with a grade of "C" or higher Corequisites: RESP 201, RESP 202, RESP 203, RESP 205 Lecture: Minimum 36 hours per semester

Clinic: Minimum 252 hours per semester

Clinical application of advanced-level skills learned in the laboratory and theory classes. Follows the Second-Year Clinical Syllabus, under continuous direct supervision, to validate competence in the skills required to care for patients in a variety of healthcare settings and to reflect the *Clinical Practice Guidelines* as well as the local standards of practice. Student must demonstrate the ability to carry a full workload (18 units) in a critical care area for three assigned days.

205 INTRODUCTION TO PHARMACOLOGY AND DRUG THERAPY 3 UNITS

Associate Degree Applicable

Prerequisites: RESP 101, RESP 102, RESP 103, RESP 104, RESP 105, RESP 106, RESP 108, RESP 110X4, and

RESP 112 with a grade of "C" or higher Corequisites: RESP 201, RESP 202, RESP 203, RESP 204 Lecture: Minimum 48 hours per semester

Study of the administration of medicine and drug therapy with an emphasis on cardio-respiratory drugs. Drugs and their actions and interactions. Basic drug mathematics and calculations as well as Advanced Cardiac Life Support drugs.

206 ADVANCED THEORY RESPIRATORY CARE II

4 UNITS

Associate Degree Applicable

Prerequisites: RESP 201, RESP 202, RESP 203, RESP 204, and RESP 205 with a grade of "C" or higher

Corequisites: RESP 207, RESP 208, RESP 211X4, RESP 218 Lecture: Minimum 64 hours per semester

Advanced theory, including oxygen transport, acid-base balance, renal function, electrolyte assessment, nutrition, pulmonary function testing, and pulmonary pathologies.

207 PHYSIOLOGIC BASIS OF RESPIRATORY DISEASE II 5 UNITS

Associate Degree Applicable

Prerequisites: RESP 201, RESP 202, RESP 203, RESP 204, and RESP 205 with a grade of "C" or higher

Corequisites: RESP 206, RESP 208, RESP 211X4, RESP 218 Lecture: Minimum 80 hours per semester

Further presentation of applied cardiopulmonary, renal, and neuropathophysiology related to the diagnosis and treatment of diseases the therapist will encounter in the clinical setting. The case history approach is used wherever possible in an effort to assist in preparation for National Board for Respiratory Care, Inc. examinations.

208 ADVANCED RESPIRATORY CARE CLINICAL APPLICATION II 5.25 UNITS

Associate Degree Applicable Prerequisites: RESP 201, RESP 202, RESP 203, RESP 204, and RESP 205 with a grade of "C" or higher

Corequisites: RESP 206, RESP 207, RESP 211X4, RESP 218 Lecture: Minimum 36 hours per semester

Clinic: Minimum 252 hours per semester

Continued clinical application of advanced-level skills learned in the laboratory and theory classes. Follows the Second-Year Clinical Syllabus, under continuous direct supervision, to validate competence in the skills required to care for patients in a variety of healthcare settings and to reflect the *Clinical Practice Guidelines* as well as the local standards of practice. Student must demonstrate the ability to carry a full workload (18 units) in a critical care area for three assigned days.

209AX2 CLINICAL REFRESHER: ADVANCED CLINICAL APPLICATION I 2.5 UNITS

Associate Degree Applicable

Prerequisite: RESP 204 with a grade of "C" or higher Lecture: Minimum 18 hours per semester

Clinic: Minimum 126 hours per semester

Continued clinical application of advanced-level skills learned in the laboratory and theory classes. Follows the Second-Year Clinical Syllabus, under continuous direct supervision, to validate competence in the skills required to care for patients in a variety of healthcare settings and to reflect the *Clinical Practice Guidelines* as well as the local standards of practice. Offered for Credit or No Credit only. This course may be taken two times.

209BX2 CLINICAL REFRESHER: ADVANCED CLINICAL APPLICATION II 2.5 UNITS

Associate Degree Applicable

Prerequisite: RESP 208 with a grade of "C" or higher Lecture: Minimum 18 hours per semester

Clinic: Minimum 126 hours per semester

Continued clinical application of advanced-level skills learned in the laboratory and theory classes. Follows the Second-Year Clinical Syllabus, under continuous direct supervision, to validate competence in the skills required to care for patients in a variety of healthcare settings and to reflect the *Clinical Practice Guidelines* as well as the local standards of practice. Offered for Credit or No Credit only. This course may be taken two times.

211X4 CLINICAL MEDICINE II

Associate Degree Applicable

1.5 UNITS

Prerequisite: None Lecture: Minimum 24 hours per semester

Continued study of clinical pulmonary medicine, using local physicians to present respiratory-related disease processes. This course uses a combination of lecture and case presentation to provide a pathophysiologic basis for respiratory care. It is highly recommended that a student, upon entering this class, (1) be a Licensed Respiratory Care Practitioner in the State of California or (2) be concurrently enrolled in Crafton Hills College's Registered Respiratory Therapist Program. This course may be taken four times.

218 ADVANCED RESPIRATORY CARE LABORATORY II 4 UNITS

Associate Degree Applicable

Prerequisites: RESP 201, RESP 202, RESP 203, RESP 204, and RESP 205 with a grade of "C" or higher

Corequisites: RESP 206, RESP 207, RESP 208, and RESP 211X4

Lecture: Minimum 32 hours per semester

Laboratory: Minimum 96 hours per semester

Exposure to new procedures and the improvement of skills based on assessment of individual student performance. Specialized instruction to strengthen identified competencies as final preparation for professional practice, as well as Certification in Advanced Cardiac Life Support.

925X4 ENTRY LEVEL EXAMINATION: REVIEW AND SEMINAR 1.75 UNITS

Not Applicable to the Associate Degree

Prerequisite: Completion of a Certified Respiratory Therapist Program approved by the Committee on Accreditation for Respiratory Care (CoARC).

Lecture: Minimum 30 hours per semester

Preparation and review for the National Board for Respiratory Care (NBRC) Entry Level Examination; discussion of examination structure, content, and site requirements, and review of sample NBRC test questions for remediation. Self-evaluation practice examinations will be key features. (If a first-year candidate for the Certificate of Completion in the Certified Respiratory Therapist Program does not successfully complete the mandatory end-ofthe-year secured self-assessment examination, successful completion of this course will be required to secure the Certificate). Offered for Credit or No Credit only. This course may be taken four times.

927X4 ADVANCED PRACTITIONER EXAMINATIONS: REVIEW AND SEMINAR 3 UNITS

Not Applicable to the Associate Degree Prerequisite: None

Lecture: Minimum 36 hours per semester

Laboratory: Minimum 36 hours per semester

Preparation for the National Board for Respiratory Care, Inc. Advanced Level Written Registry and Clinical Simulation Examination; discussion of examination structure, content, examination site requirements, and review of sample test questions, self-evaluation practice examinations are featured. Offered for Credit or No Credit only. This course may be taken four times.

Rotocraft-Helicopter Pilot Training (roto)

Department:Emergency ServicesDepartment Head:James Holbrook, Ed.D.

100 FUNDAMENTAL THEORIES OF HELICOPTER FLIGHT 3 UNITS

Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Concurrently enrolled in ROTO 101, Reading skills recommended: 12th grade reading level

Lecture: Minimum 48 hours per semester

Introduction to helicopter flights theory and is a Federal Aviation Administration prerequisite for helicopter pilot certificate. Covers principles of flight, helicopter systems and instruments, flight environment, communications and performance, meteorology for pilots, basic navigation, aviation physiology, and flight planning decision making.

101 HELICOPTER PRIVATE PILOT FLIGHT TRAINING 2 UNITS

Associate Degree Applicable

Prerequisite: Acceptance into the Helicopter Pilot Training Program

Departmental Recommendations: Concurrently enrolled in ROTO 100, Reading skills recommended: 12th grade reading level

Lecture: Minimum 20 hours per semester

Laboratory: Minimum 40 hours per semester

Introduction to helicopter flight and flight environment. Provides the aeronautical skills and experience necessary to safely operate a piston engine helicopter. Federal Aviation Administration (FAA) prerequisite for helicopter pilot certificate.

200 ADVANCED THEORIES OF HELICOPTER FLIGHT 3 UNITS

Associate Degree Applicable

Prerequisite: Must hold a Private Helicopter License issued by the Federal Aviation Administration

Departmental Recommendation: Concurrently enrolled in ROTO 201

Lecture: Minimum 48 hours per semester

Advanced course on helicopter flight theory and Federal Aviation Administration (FAA) prerequisite for helicopter commercial pilot certificate. Will reinforce and expand on concepts learned during private pilot certification. The focus will be on additional instruction in advanced navigation equipment, procedures and maneuvers applicable to commercial pilot certification, specifically 180 auto-rotation, confined area operations, pinnacle/platform operations, as well as float operations.

201 HELICOPTER COMMERCIAL PILOT FLIGHT TRAINING 2 - 4 UNITS

Associate Degree Applicable

Prerequisites: Must hold a Private Helicopter License,

Must hold a valid FAA Medical Certificate (2nd or 3rd Class) Departmental Recommendation: Concurrently enrolled in ROTO 200

Lecture: Minimum 20 hours per semester

Laboratory: Minimum 30-115 hours per semester

Builds upon the fundamentals of helicopter flight and flight environment taught in ROTO 100, 101 and 200. Provides the aeronautical skills and experience necessary for professional helicopter operations. Federal Aviation Administration (FAA) prerequisite for commercial pilot certificate.

Sociology (soc)

Department:	Social Sciences
Department Head:	Mario Perez, M.A.

ASSOCIATE OF ARTS DEGREE SOCIOLOGY

REQUIREDC	OURSES:	UNITS	
SOC 100	Introduction to Sociology	3	
SOC 105	Social Problems	3	
SOC 141	Minority Relations	3	
Select two cou	rses from the following:		
ANTHRO 102	Cultural Anthropology	(3)	
MATH 108	Statistics		
		(4)	
PHIL 103	Introduction to Logic: Argument and Evidence	(3)	
PSYCH100	General Psychology	(3)	
Select one additional course from the courses above or the following:			
SOC 130	Marriage, Family and Intimate Relationships	(3)	

	Relationships	
SOC 150	Gerontology	(3)
PSYCH116	Psychology of Sex Roles	(3)
	TOTALUNITS	18-19

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 INTRODUCTION TO SOCIOLOGY

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Reading: Pass a Nelson-Denny or comparable test at or above the 30th percentile (12th grade level), MATH 952, ENGL 101 Lecture: Minimum 48 hours per semester

Survey of the concepts and theories of society and culture, social organization, social stratification, everyday life, social change, and social policy; the study of the structure and function, and the patterns and processes, of human social life. (CAN SOC 2)

105 SOCIAL PROBLEMS

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Reading: Pass a Nelson-Denny or comparable test at or above the 30th percentile (12th grade level), MATH 952, ENGL 101 Lecture: Minimum 48 hours per semester

Sociological study of significant structural problems in the contemporary United States such as poverty, family issues, minority relations, criminality, substance abuse, health care, sexual orientation, environmental degradation, warfare, their interrelationships, and global implications.

130 MARRIAGE, FAMILY AND INTIMATE RELATIONSHIPS

3 UNITS

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendations: Reading: Pass a Nelson-Denny or comparable test at or above the 30th percentile (12th grade level), ENGL 101

Lecture: Minimum 48 hours per semester

Analytical and functional study of the structure and process of the institution of the family, with special emphasis on contemporary marriages and families, as well as alternative forms of intimate relationships, in the United States.

141 MINORITY RELATIONS 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendations: Reading: Pass a Nelson-Denny or comparable test at or above the 30th percentile (12th grade level), ENGL 101 Lecture: Minimum 48 hours per semester

Sociological study of multiculturalism and diversity in the United

Sociological study of multiculturalism and diversity in the United States, social stratification, ethnic and other minorities, intergroup relations, and their global dimensions.

150 GERONTOLOGY

CSU, Associate Degree Applicable

Prerequisites: None

Departmental Recommendations: Reading: Pass a

standardized test of reading comprehension at or above the 12th grade level, ENGL 101, MATH 095, PSYCH 100 Lecture: Minimum 48 hours per semester

Physical, emotional, cognitive, social, and economic perspectives on aging, including a review of how roles change with age, and the opportunities available to people over age 55. Recommended for students seeking careers in human services. This course is also offered as PSYCH 150.

Spanish (span)

Department:	Language Arts
Department Head:	Mark Snowhite, M.A.
Faculty:	Marina Kozanova, M.A.

ASSOCIATE OF ARTS DEGREE SPANISH

REQUIRED COURSES:		UNITS
SPAN 101	College Spanish I	5
SPAN 102	College Spanish II	5
SPAN 103	College Spanish III	4
SPAN 104	College Spanish IV	4
ENGL 101	Freshman Composition	4
ENGL 102	Intermediate Composition and	(4)
	Critical Thinking	
	OR	
ENGL152	Intermediate Composition and	(4)
	Literature	
	TOTALUNITS	26

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

015 CONVERSATIONAL SPANISH I

3 UNITS

3 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

The first semester of Conversational Spanish. Some formal grammar study. Designed to suit the needs of persons who wish to learn to communicate orally in the Spanish language for purposes of travel, business, personal pleasure, etc.

016 CONVERSATIONAL SPANISH II

Associate Degree Applicable Prerequisite: SPAN 015

Lecture: Minimum 48 hours per semester

The second semester of Conversational Spanish. Some formal grammar study. Designed to suit the needs of persons who wish to learn to communicate orally in the Spanish language for purposes of travel, business, personal pleasure, etc.

101 COLLEGE SPANISH I

UC*, CSU*, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 80 hours per semester

Laboratory: Minimum 16 hours per semester

An introductory course which begins the development of the student's listening, speaking, reading and writing skills in Spanish. The course also involves the study of Spanish pronunciation, vocabulary, idioms, grammar and the Hispanic culture. (This course corresponds to the first year of high school Spanish.)

102 COLLEGE SPANISH II

5 UNITS

4 UNITS

5 UNITS

UC*, CSU*, Associate Degree Applicable Prerequisite: SPAN 101

Lecture: Minimum 80 hours per semester

Laboratory: Minimum 16 hours per semester

A continuation of SPAN 101 and a continued development of the student's listening, speaking, reading and writing skills in Spanish. The course also continues the study of Spanish vocabulary, idioms, grammar and the Hispanic culture. (This course corresponds to the second year of high school Spanish.)

103 COLLEGE SPANISH III

UC*, CSU*, Associate Degree Applicable

Prerequisite: SPAN 102

Lecture: Minimum 64 hours per semester Laboratory: Minimum 16 hours per semester

A continuation of SPAN 102 and the further development of the student's listening, speaking, reading and writing skills in Spanish. The course includes a further study of Spanish vocabulary, idioms, more complex grammatical structures and the Hispanic culture, as it is reflected in cultural and literary readings.

104 COLLEGE SPANISH IV

4 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: SPAN 103

Lecture: Minimum 64 hours per semester

Laboratory: Minimum 16 hours per semester

A continuation of SPAN 103 and an in depth study of Spanish grammar and the continued development of the student's listening, speaking, reading and writing skills. The course also involves an enhancement of the student's cultural awareness through reading, discussion and written analysis of Hispanic cultural and literary readings.

Speech (speech)

Department:	Language Arts
Department Head:	Mark Snowhite, M.A.
Faculty:	Richard Hogrefe M A
Faculty:	Richard Hogrefe, M.A.

ASSOCIATE OF ARTS DEGREE SPEECH

REQUIRED COURSES: U		UNITS
SPEECH 100	Elements of Public Speaking	3
SPEECH111	Interpersonal Communication	3
SPEECH 140	Small Group Communication	3
Select nine rela	ited units from the following:	
SPEECH 101	Advanced Public Speaking	(3)
SPEECH 120	Oral Interpretation of Literature	(3)
SPEECH 121	Advanced Interpretation and	(3)
	Readers Theatre	. /
SPEECH 125	Critical Thinking Through	(3)
	Argumentation and Debate	. /
SPEECH174	Communication in a Diverse	(3)
	World	. /
SPEECH 246, 2	47 248 Special Studies in	(1-3)
	Communication	. ,
ENGL 155	Children's Literature	(3)
ENGL 170	The Film Experience	(3)
INTDIS 180	Community Service and Leadership I	(2-3)
INTDIS 181	Community Service and Leadership II	(2-3)
MARKET 110	Advertising	(3)
PSYCH132	Counseling and Interviewing	(3)
	Techniques	
SOC 130	Marriage, Family and Intimate	(3)
	Relationships	. /
THART 120	Acting Fundamentals	(3)
	TOTALUNITS	18

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

050 FUNDAMENTALS OF ORAL COMMUNICATION 3 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Study of the basic skills necessary for communicating in our world. Focuses on the most essential parts of the communication process including language, nonverbal communication, voice and articulation and listening in interpersonal, small group and public situations. Addresses the specific needs of non-native speakers of English, non-transfer students and students needing additional preparation before taking SPEECH 100.

100 ELEMENTS OF PUBLIC SPEAKING 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: ENGL 101

Lecture: Minimum 48 hours per semester

Introductory study and training in public communication. Instruction in preparing relevant, well researched, organized and audience-centered speeches. Methods of and practice in delivery techniques which will assist in developing confidence and result in effective informative and persuasive presentations.

101 ADVANCED PUBLIC SPEAKING3 UNITSUC, CSU, Associate Degree Applicable

Prerequisite: SPEECH 100

Lecture: Minimum 48 hours per semester

Development of critical thinking and listening skills through advanced public speaking in specific communication environments. Understanding of rhetorical traditions and technological advances as a means of crafting communication messages, emphasizing audience analysis, language use and delivery.

- 111 INTERPERSONAL COMMUNICATION 3 UNITS
- UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Examination of the dynamics of the communication process within the context of interpersonal relationships. Principles of effective listening and accurate expression of verbal and nonverbal messages. Development of skills including assertiveness, conflict management, self disclosure and emotional expression to improve personal and professional interactions with others.

120 ORAL INTERPRETATION OF LITERATURE 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: SPEECH 100 Lecture: Minimum 48 hours per semester

Basic principles of oral communication are explored through analysis and interpretative performance of prose, poetry and dramatic literature. Introduction to and practice in the art of reading aloud for effective use of voice and movement according to the style, mood, meaning and emotion of literature. Improvement of minor vocal problems.

121 ADVANCED INTERPRETATION AND READERS THEATRE

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: SPEECH 120

Lecture: Minimum 48 hours per semester

History, theory, and practice of the art of oral interpretative reading. Preparation and presentation of four lecture-recital programs.

125 CRITICAL THINKING THROUGH ARGUMENTATION AND DEBATE 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: ENGL 101 or SPEECH 100 Lecture: Minimum 48 hours per semester

Study of critical thinking through oral advocacy and debate. Principles of effective argumentation including logic, reasoning, evidence, motivation, persuasion and refutation. Preparation and presentation of written and oral arguments and participation in individual and group debates. Substantial analytical reading is required.

140 SMALL GROUP COMMUNICATION 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Departmental Recommendation: Eligibility for ENGL 101 Lecture: Minimum 48 hours per semester

Introductory principles and techniques of small group interaction including participation in panel discussions, symposiums and cooperative problem solving. Development of skills in agenda setting, decision-making, group leadership, conflict management and individual speaking. Emphasis on critical thinking and meaningful communication as they apply to work in business and the community.

174 COMMUNICATION IN A DIVERSE WORLD 3 UNITS

CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Study of the multicultural nature of communication in our diverse world. Examines how interactions are influenced by culture, including race and ethnicity, gender and sexual orientation, age, religious faith and disability. Exploration of personal cultural identity, theories of intercultural communication, sources of cultural conflict, and development of skills for effective intercultural communication.

SPECIAL STUDIES IN COMMUNICATION 246AB 247AB 248ABC

UC*, CSU, Associate Degree Applicable

Prerequisite or Corequisite: Any speech course Laboratory: Minimum 48 hours per semester

Independent projects for students with a special interest in speech, involving assigned readings, research, conferences, and public speaking. Projects to be determined jointly by the student and instructor prior to registration.

917X2 LABORATORY FOR ORAL INTERPRETATION 0 UNIT

Not Applicable to the Associate Degree Prerequisite: None Corequisite: SPEECH 120 or SPEECH 121 Laboratory: Variable hours

Optional laboratory to supplement coursework in oral interpretation. Activities include appreciation, evaluation and participation in various forms of interpretive performance. This course may be taken two times.

Speech-Language Pathology Assistant

(SLPA)

Department:	Allied Health Services
Department Head:	Kenneth Bryson, M.A.
Liaison Counselor:	Judi Harrington, M.A.

ASSOCIATE OF SCIENCE DEGREE SPEECH-LANGUAGE PATHOLOGY ASSISTANT

REQUIREI	COURSES:	UNITS
SLPA119	Introduction to Speech Pathology	3
	and Audiology	
SLPA120	Transcription Phonetics	2
SLPA121	Observation Laboratory	1
SLPA 122	Assessment and Intervention of	3
	Communication Disorders in Children	
SLPA123	Assessment and Intervention of	3
	Communication Disorders in Adults	
SLPA124	Workplace Issue, Ethics and	3
	Practices	
SLPA125	Assistive Technology	1
SLPA126	Bilingual and Bicultural Issues in	1
	Communication	
SLPA127	Practicum Laboratory	3
ASL 101	American Sign Language I	4
CD 105	Child Growth and Development	3
CD 134	Language and Listening, Literacy	3
	and Literature Experiences for Children	
	TOTAL UNITS	30
	D GENERAL ED COURSES:	UNITS
ENGL 101	Freshman Composition	4
ANAT 101	Essentials of Human Anatomy	4
	and Physiology	
HEALTH 10	02 Biological Principles of Health OR	(3)
HEALTH 2	63/PE 263 Nutrition and Health	(3)
	OR	
2 units of PE/I activities courses (2)		
AND		
ENGL152	Intermediate Composition and	4

	Literature	
ENGL 155	Children's Literature	(3)
	OR	
3 units of h	umanities courses	(3)

1 UNIT

2 UNITS

3 UNITS

AND		
PSYCH100	General Psychology	3
POLIT 100	American Politics OR	(3)
HIST 100	History of the United States to 1877 OR	(3)
HIST 101	History of the United States 1865 to the Present	(3)
CHOOSE 1	OF THE FOLLOWING:	
	Personal and Social Adjustment OR	(3)
PSYCH103	Psychology of Personality OR	(3)
PSYCH113	Adulthood and Old Age OR	(3)
PSYCH150	Gerontology OR	(3)
SOC 100 AND	Introduction to Sociology	(3)
	Essentials of Public Speaking OR	(3)
SPEECH 111 AND	Interpersonal Communication	(3)
CIS 101	Introduction to Computers and Information Technology OR	(3)
CIS 255	Introduction to Computer Technology for Educators	(3)
	TOTALUNITS	32-34

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

119 INTRODUCTION TO SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 3 UNITS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Introduction to the field of communication disorders, including adult and child language disorders, adult and child speech disorders, voice, hearing and fluency disorders. Course includes development of normal speech and language from infancy through adolescence.

120 TRANSCRIPTION PHONETICS

Associate Degree Applicable Prerequisite: None

Lecture: Minimum 32 hours per semester

Development of transcription skills using the International Phonetic Alphabet (IPA).

121 OBSERVATION LABORATORY

Associate Degree Applicable

Prerequisites: Acceptance into the Speech-Language Pathology Assistant Program, CD 105 and SLPA 119 Corequisite: SLPA 122

Laboratory: Minimum 48 hours per semester

Students are required to formally observe the speech and language therapy process in a variety of clinical and school sites. Observations will cover speech, language, and hearing assessment and intervention with a full range of disorders and settings. In addition, students will observe and perform language interaction activities with children in the Crafton Hills College Child Development Center.

122 ASSESSMENT AND INTERVENTION OF COMMUNICATION DISORDERS IN CHILDREN 3 UNITS

Associate Degree Applicable

Prerequisites: Acceptance into the Speech-Language Pathology Assistant Program and SLPA 120

Corequisite: SLPA 121

Lecture: Minimum 48 hours per semester

Study of articulation, phonological, fluency, and voice disorders in children. Also a study of language disorders in children from infancy through adolescence. Students will learn and discuss treatment strategies for various disorders and age levels.

123 ASSESSMENT AND INTERVENTION OF COMMUNICATION DISORDERS IN ADULTS

3 UNITS

1 UNIT

Associate Degree Applicable

Prerequisites: Acceptance into the Speech-Language Pathology Assistant Program, ANAT 101, SLPA 121 and one of the following: PSYCH 102, PSYCH 103, PSYCH 113, PSYCH 150, SOC 100 Corequisite: SLPA 124

Lecture: Minimum 48 hours per semester

Study of basic anatomy and physiology of the head and neck. Study of motor speech disorders, voice, and swallowing disorders. This course also covers acquired language disorders including aphasia, right hemisphere disorders, and traumatic brain injury. Students will discuss and learn treatment strategies.

124 WORKPLACE ISSUES, ETHICS, AND PRACTICES 3 UNITS

Associate Degree Applicable

Prerequisites: Acceptance into the Speech-Language Pathology Assistant Program and SLPA 122

Corequisite: SLPA 123

Lecture: Minimum 48 hours per semester

Principles and procedures for management of individuals with communicative disorders with consideration for cultural and linguistic variations. Legal and ethical considerations as well as requirements for employment in various work settings, including interdisciplinary and supervisory relationships and scope of responsibilities.

2 UNITS

125 ASSISTIVE TECHNOLOGY

1 UNIT

Associate Degree Applicable

Prerequisites: Acceptance into the Speech-Language Pathology Assistant Program, SLPA 122 and SLPA 124

Lecture: Minimum 16 hours per semester

An introductory course which will cover the development and use of assistive technology for individuals in need of augmentative or alternative means of communication.

126 BILINGUAL AND BICULTURAL ISSUES IN COMMUNICATION 1 UNIT

Associate Degree Applicable

Prerequisites: Acceptance into the Speech-Language Pathology Assistant Program, SLPA 122 and SLPA 124

Lecture: Minimum 16 hours per semester

Addresses the clinical competencies and cultural sensitivity needed in interaction with bicultural and bilingual clients/patients. Discusses the impact of such knowledge on assessment and intervention.

127 PRACTICUM LABORATORY 3 UNITS

Associate Degree Applicable

Prerequisites: Acceptance into the Speech-Language Pathology Assistant Program, SLPA 122 and SLPA 124

Laboratory: Minimum 144 hours per semester

This course will help fulfill the California Speech-Language Pathology and Audiology Board requirement of a minimum of 70 hours of supervised clinical practice in at least two settings. In addition, the American Speech-Language Hearing Association (ASHA) requires a minimum of 100 hours of supervised practice.

246 SPECIAL PROBLEMS IN SPEECH-LANGUAGE PATHOLOGY 1 UNIT

Associate Degree Applicable Prerequisite: AH 119A

Lecture: Minimum 16 hours per semester

The development of normal speech and language from infancy through adolescence.

THEATRE ARTS (THART)

Department:	Fine Arts
Department Head:	Marc Wurmbrand, M.F.A.

ASSOCIATE OF ARTS DEGREE THEATRE ARTS

REQUIRED COURSES:		UNITS
THART 100	Introduction to Theatre	3
THART 108	World Drama I	3
THART 120	Acting Fundamentals	3
THART 175	Stage Makeup	1
THART 176X4 Fundamentals of Stagecraft		4
	(must be taken four times)	
THART 220	Advanced Acting I	3
THART 221	Advanced Acting II	3
THART 2252	X4 Character Analysis	3
	TOTALUNITS	23

Lower division requirements for students interested in transferring to a four year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details.

100 INTRODUCTION TO THEATRE 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 48 hours per semester

Introduction to the fundamental theories of the theatre arts, providing a basic back ground and helping students develop an appreciation of theatre production, film, and television.

108 WORLD DRAMA I 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Survey of the masterworks of the theatre, covering great dramatic literature from the classical Greek period to the neoclassical period during the first semester and from the Restoration to the present during the second semester.

3 UNITS

109 WORLD DRAMA II

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: THART 108 Lecture: Minimum 48 hours per semester

Survey of the masterworks of the theatre, covering great dramatic literature from the classical Greek period to the neoclassical period during the first semester and from the Restoration to the present during the second semester.

116X4 REPERTORY THEATRE

3 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendation: Audition Lecture: Minimum 40 hours per semester

Laboratory: Minimum 16 hours per semester

Program offering for the superior career-oriented student performer. This eight week summer course differs from the regularly scheduled performance laboratory program in the degree of professionalism expected and the intensity of the work required. This course may be taken four times.

117X4 TOURING REPERTORY THEATER WORKSHOP

3 UNITS

CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendation: THART 116X4 Lecture: Minimum 24 hours per semester

Laboratory: Minimum 48 hours per semester

Practice in the concepts and procedures of the professionally produced touring show. Preparation and presentation of productions designed for touring. This course may be taken four times.

120 ACTING FUNDAMENTALS 3 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 48 hours per semester

Introduction to the Stanislavski theory of acting, with practical application in solo and ensemble scenes in the major areas of dramatic literature.

130X4 JAZZ DANCE

1 - 2 UNITS

3 UNITS

UC, CSU*, Associate Degree Applicable

Prerequisite: None

Lecture: Minimum 8-16 hours per semester Laboratory: Minimum 16-32 hours per semester

Study of the principles of jazz and theatrical dance techniques, with emphasis on body placement, principles of kinesiology, and motor learning. This course may be taken four times. This course is also offered as PE/I 130X4.

140X4 THEATRE WORKSHOP

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Lecture: Minimum 24 hours per semester

Laboratory: Minimum 60 hours per semester

Practice in the interpretation of varied roles in dramatic literature, plotting of action on stage, designing of costumes and settings for plays, and the use of make-up. This course may be taken four times.

145X4 ADVANCED THEATRE WORKSHOP **3 UNITS**

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Departmental Recommendation: THART 140X4 Lecture: Minimum 24 hours per semester

Laboratory: Minimum 48 hours per semester

Advanced practice in the development of a professionally mounted production, the interpretation of varied roles in dramatic literature, designing of costumes and settings for plays. This course may be taken four times.

146X4 ACTING: ADVANCED PERFORMANCE WORKSHOP **3 UNITS**

UC, CSU, Associate Degree Applicable **Prerequisite:** None Departmental Recommendation: THART 145X4 Lecture: Minimum 24 hours per semester

Laboratory: Minimum 48 hours per semester

Supervised applied theory in acting, singing, and dancing for the stage through projects for public presentation. This course may be taken four times.

150X4 SUMMER THEATRE WORKSHOP 2 - 4 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None

Laboratory: Minimum 64-128 hours per semester

Instruction in the areas of stage production, acting, promotion, and publicity. Designed as theatrical experience for high school graduates and college freshmen. This course may be taken four times.

174X4 DANCE PRODUCTION WORKSHOP 2 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None Lecture: Minimum 16 hours per semester

Laboratory: Minimum 32 hours per semester

Instruction and practice in the development of dance as an integral part of a theatrical production. This course may be taken four times.

175 STAGE MAKE-UP **1 UNIT**

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Laboratory: Minimum 48 hours per semester

Introduction to the theories and practice of make-up through changing the appearance of the actor to correspond to an interpretation of the character.

176X4 FUNDAMENTALS OF STAGECRAFT 1 - 4 UNITS

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Laboratory: Minimum 32 hours per semester

Basic theories and practice of construction, painting, assembly, shifting and lighting of stage scenery and properties. This course may be taken four times.

2 UNITS

179X4 FUNDAMENTALS OF STAGECRAFT -**ADVANCED PRACTICUM**

UC, CSU, Associate Degree Applicable **Prerequisite:** None

Laboratory: Minimum 64 hours per semester

Continuation of THART 176X4, designed to extend the student's vocational opportunities in the theatrical profession. Emphasizes special projects in the theatre (lighting, special effects, special designs), black and white photography which uses the actual theatre production as a subject exclusively. Includes camera familiarization and shooting techniques, negative and print darkroom procedures, finishing and presentation. This course may be taken four times.

220 ADVANCED ACTING I 3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Lecture: Minimum 48 hours per semester

Theory and practice of characterization in solo and ensemble scenes.

221 ADVANCED ACTING II

3 UNITS

UC, CSU, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: THART 220 Lecture: Minimum 48 hours per semester

Theory and practice of characterization in solo and ensemble scenes.

225X4 CHARACTER ANALYSIS 3 UNITS

UC, CSU, Associate Degree Applicable

Prerequisite: None Departmental Recommendation: THART 140X4 or equivalent

Lecture: Minimum 48 hours per semester

Study of the analytical steps involved in the development of characters preparatory to rehearsals and performances, followed by evaluation of performances and post-play discussion. This course may be taken four times.

231X4 JAZZ DANCE II

Accordence II

1 - 2 UNITS

UC, CSU*, Associate Degree Applicable Prerequisite: None

Departmental Recommendation: THART 130X4 or PE/I 130X4 Lecture: Minimum 8-16 hours per semester

Laboratory: Minimum 16-32 hours per semester

Continuation of THART 130X4, with student choreography and performance added. This course may be taken four times.

246X4 SPECIAL PROJECTS IN THEATRE ARTS 1 UNIT

UC*, CSU, Associate Degree Applicable

Prerequisite: Completion of or concurrent enrollment in a Theatre Arts course

Laboratory: Minimum 48 hours per semester

Laboratory projects for selected students in any area of theatre, with projects determined jointly by instructor and student. This course may be taken four times.

Work Experience (WKEXP)

099 GENERAL WORK EXPERIENCE

2 - 3 UNITS

Associate Degree Applicable Prerequisite: None

Corequisite: Enrolled in at least 7 units, including this Work Experience course

Work Experience: 150-225 Paid Employment 120-180 Unpaid Employment

Supervised general work experience education to assist students in acquiring desirable work habits, career awareness, and job attitudes consistent with contemporary community standards.

OCCUPATIONAL WORK EXPERIENCE

Work experience education credit can be earned through supervised activities in each of the occupational disciplines. (Listed as **198** in each appropriate Discipline.)





determination



SECTION III

Associate Degree Programs

Graduation Requirements

ASSOCIATE DEGREES (AA and AS)

REQUIREMENTS:

- Completion of a minimum of **60 units** acceptable college work with at least a "C" (2.0) or better grade point average.
 NOTE: Courses numbered 900-999 are designated as nondegree applicable; however, units earned in these courses **DO COUNT** as student workload units. Courses numbered 001-299 are degree applicable.
- 2. Completion of a minimum of **eighteen** (18) semester units in a major discipline as identified by the college catalog. Students who have not yet selected a major field may graduate as a Liberal Studies major. (See "Majors" on page 104.) Work Experience units may not be applied to the major.

Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring.

- 3. Completion of **twelve** (12) semester units in residence at Crafton Hills College.
- 4. Demonstrated reading capability at the 12th grade level or higher on the Nelson-Denny test OR completion of a READ 078X2, with a grade of "C" or better, OR a score of 85 or better on the reading portion of the placement test (Accuplacer) or equivalent scores or courses from another accredited institution.
- 5. Mathematics proficiency as demonstrated by achieving a passing score on the Mathematics Proficiency exam OR completion of MATH 090 (Elementary Algebra) or any higher level math course with a grade of "C" or better or equivalent course from another accredited institution.
- 6. Writing competency as demonstrated by a grade of "C" or better in ENGL 015 (Preparation for College Writing) OR ENGL 101 (Freshman Composition), OR an equivalent course from another accredited institution.
- Completion of the Orientation course (PCD 055) that is required, as of FALL 2001, for all first-time college students in compliance with California's Matriculation Plan. Students with proof of previous college work or an orientation course from another accredited institution MAY be exempt. PCD 055 should be completed within the first two semesters of attendance. See a counselor for details.
- 8. The following restrictions apply to the **60 units** required for graduation:
- a. A maximum of **4 units** of physical education activities may be applied.

- b. A maximum of **15 units** of credit (CR) grades may be applied. No course in the student's major or required for that major may be taken for credit (CR).
- c. A maximum of **6 units** of reading and study skills courses numbered 001-099 may be applied.
- d. A maximum of **16 units** of Occupational Work Experience or **6 units** of General Work Experience may be applied for elective credit ONLY.
- 9. Completion of a minimum of **twenty-six** (26) units of general education must be distributed as indicated: three to four units in category A, two units in category B and a minimum of six units in three of the following four categories (C, D, E and F). A minimum of three units must be earned in the remaining category. No single course may be used to meet more than one general education requirement.
- a. **English** (3-4 units minimum) to be selected from ENGL 015 or 101
- Physical Education/Nutrition/Health Education (2 units) HEALTH 102, 103, 263 PE/I, PE/T PE 263
- c. Natural Sciences (3-6 units) ANAT 101, 150, 151 ASTRON BIOL CHEM GEOG 110/111, 114, 126 GEOL MICRO OCEAN PHYSIC
- d. **Humanities** (3-6 units) Students must take at least one course from section I:
 - I. ANTHRO 110 ART 100, 102, 105 ENGL 150, 152, 155, 160, 163, 170, 175, 232, 250, 260, 261, 270, 271, 275 FOREIGN LANGUAGE (including ASL) HIST 160, 161, 170, 171 INTDIS 101, 102, 108, 130, 140 MUSIC 100, 103, 120, 134 PHIL RELIG SPEECH 120, 121 THART 100, 108, 109
 - II. Applied Arts Art, Music or Theatre Arts majors may not use applied courses to fulfill the Humanities requirement. ART: All courses may apply except 100, 102 and 105 MUSIC: All courses may apply except 100, 103, 120 and 134 THART All courses may apply except 100, 108 and 109

- e. Social Sciences (3-6 units) ANTHRO ECON GEOG 120 HIST POLIT
 - PSYCH (except 055) SOC
- f. Communication & Analytical Thinking (3-6 units) BIS 145 BUSAD 053, 145 CIS ENGL 015, 101, 102

MATH (except 942, 952) PHIL 103 SPEECH 100, 101, 111, 140

The following Associate Degree majors are available at Crafton Hills College. The choice of major determines if the degree granted will be an Associate of Arts (AA) or an Associate of Science (AS). A minimum of 18 semester units as defined by the college catalog is required to complete a major. General Education and graduation requirements are the SAME for every major.

MAJORS

ASSOCIATE OF ARTS

- Accounting
- Administration of Justice
- Anthropology
- Art
- Business Administration
- Child Development
- Economics
- English
- History
- Liberal Studies
- Marketing
- Music
- Philosophy
- Political Science
- Psychology
- Religious Studies
- Sociology
- Spanish
- Speech
- Theatre Arts

ASSOCIATE OF SCIENCE

- Astronomy
- Biology
- Certified Respiratory Therapist
- Chemistry
- Computer Information Systems
- Emergency Medical Services
- Fire Technology
- Geography
- Geology
- Mathematics
- Physics
- Radiologic Technology
- Registered Respiratory Therapist
- Speech-Language Pathology Assistant

ACCOUNTING (AA)

Required Courses:

- ACCT 210, 211, 220, 221, 225, 226
- BUSAD 100

ADMINISTRATION OF JUSTICE (AA)

Required Courses:

- ADJUS 101, 102, 103, 104, 105
- Select six units form the following:
- ADJUS 106, 107, 108
- PHIL 103
- SOC 141

ANATOMY/PHYSIOLOGY (AS)

See BIOLOGY

ANTHROPOLOGY (AA)

Required Courses:

- ANTHRO 100, 102, 106, 107, 110
- GEOG 110
- SOC 100

ART (AA)

Required Courses:

• ART 100, 102, 105, 120x4 (must be taken twice), 124x4, 132x4

ASTRONOMY (AS)

Required Courses:

- ASTRON 150, 160
- PHYSIC 200, 201
- CHEM 150, 151
- MATH 250, 251, 252
- **Recommended Course:**
- MATH 254

BIOLOGY (AS)

Required Courses:

- BIOL 130, 131
- CHEM 150, 151
- PHYSIC 110, 111
- Students wishing to earn an AA with an emphasis in either Anatomy and Physiology or Microbiology must also complete:

Emphasis in Anatomy and Physiology:

• ANAT 150, 151

Emphasis in Microbiology

• MICRO 150 and 247A or MICRO 102

BUSINESS ADMINISTRATION (AA)

Required Courses:

- BUSAD 100, 200, 210, 230
- ACCT 210, 211
- MARKET 100
- CHEMISTRY (AS)

Required Courses:

- CHEM 150, 151, 212, 213
- PHYSIC 110, 111

CHILD DEVELOPMENT (AA)

Required Courses:

- CD 100, 105, 112, 126, 205x4
- Select at least two courses from the following:
- CD 115, 130, 131, 132, 133, 134, 136, 185, 186

COMPUTER INFORMATION SYSTEMS (AS)

Required Courses:

- CIS 101 and 103 or 114, 130, and 140, or 150
- Select nine additional units from courses in one of the following tracks:

Emphasis in Network Technician:

- CIS 109, 131, 151, 152
- **Emphasis in Hardware Technician:**
- CIS 109, 131, 152

Emphasis in Programming:

- CIS 113, 115, 116, 117, 203
- MATH 151, 250, 251, 252, 254

Emphasis in Webmaster:

• CIS 111, 117, 118, 160, 161, 163, 168

ECONOMICS (AA)

Required Courses:

- ECON 100, 200, 201
- ENGL 101
- MATH 090, 108

EMERGENCY MEDICAL SERVICES (AS)

Required Courses:

• EMS 150, 151, 152, 153, 154, 155, 156, 157

ENGLISH (AA)

Required Courses:

- ENGL 101 and 102 or 152
- Select six units from the following:
- ENGL 260, 261, 270, 271
- Select six additional units from the following:
- ENGL 150, 155, 160, 163, 170, 175, 232, 250, 260, 261, 270, 271, 275

FIRE TECHNOLOGY (AS)

Required Courses:

- FIRET 100, 101, 102, 103, 106
- Select 5.5 units from the following:
- FIRET 087, 104, 116, 118

GEOGRAPHY (AS)

Required Courses:

- GEOG 110, 111
- GEOL 100
- MATH 103
- OCEAN 101

Select three units from the following:

- GEOG 120
- GEOL 170x4, 270x4
- CHEM 102, 150, 151

GEOLOGY (AS)

Required Courses:

- GEOG 110, 111
- GEOL 100
- CHEM 150, 151
- PHYSIC 200, 2201

HISTORY (AA)

Required Courses:

- HIST 100, 101, 160, 161, 170, 171
- Select six units from the following:
- GEOG 110
- PHIL 103
- POLIT 100

LIBERAL STUDIES (AA)

• Completion of all graduation requirements and a total of 60 degree applicable units which MUST include a minimum of 26 units of General Education.

LIBERAL STUDIES EDUCATION (AA)

• Contact Child Development and Education Department Head

MARKETING (AA)

Required Courses:

- MARKET 100, 105, 110
- BUSAD 053, 100, 210

MATHEMATICS (AS)

Required Courses:

- MATH 250, 251, 252
- Select five units from the following:
- MATH 108, 115, 151, 254
- CIS 103, 114, 115, 116
- PHYSIC 110, 111, 200, 201

MICROBIOLOGY (AS)

See Biology

MUSIC (AA)

Required Courses:

- MUSIC 101, 102, 103, 135x4 (must be taken four times) Select eight units from the following:
- MUSIC 150x4, 156x4, 174x4, 175x4

PHILOSOPHY (AA)

Required Courses:

- PHIL 101, 103, 105
- INTDIS 101 or INTDIS 102
- RELIG 101, 110

PHYSICS (AS)

Required Courses:

- PHYSIC 200, 201
- CHEM 150, 151
- MATH 250, 251, 252

POLITICAL SCIENCE (AA)

Required Courses:

- POLIT 100
- ECON 200, 201
- GEOG 110
- HIST 100, 101
- PHIL 103

PSYCHOLOGY (AA)

Required Courses:

- PSYCH 100
- Select six units from the following:
- PSYCH 102, 110, 112, 150

Select nine units from the following, of which at least six units must by PSYCH courses:

- PSYCH 103, 116, 118, 132
- SOC 100, 105

RADIOLOGIC TECHNOLOGY (AS)

- Radiologic Technology is a fully accredited, hospital-based program operated cooperatively by Crafton Hills College and the Arrowhead Regional Medical Center.
- RADIOL 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115A, 115B, 200, 201, 202, 203, 204, 205, 207, 208, 209, 210, 211, 212, 213A, 213B

RELIGIOUS STUDIES (AA)

Required Courses:

- ENGL 150
- RELIG 100, 101
- HIST 135, 160 or 161
- PHIL 101, 103

RESPIRATORY CARE (AS)

• Crafton Hills College offers programs in Certified Respiratory Therapist (CRT) and Registered Respiratory Therapist (RRT). Admission is open to all students who have completed the prerequisite course(s). Contact the Respiratory Care Program Director for information about application materials and registration pass.

Prerequisite Course:

• RESP 050

SOCIOLOGY (AA)

Required Courses:

- SOC 100, 105, 141 Select two courses from the following:
- ANTRHO 102
- MATH 108
- PHIL 103
- PSYCH 100

Select one additional course from the courses above or the following:

- SOC 130, 150
- PSYCH 116

SPANISH (AA)

Required Courses:

- SPAN 101, 102, 103, 104
- ENGL 101, 102 or 152

SPEECH (AA)

Required Courses:

- SPEECH 100, 111, 140
- Select nine related units from the following:
- SPEECH 101, 120, 121, 125, 174, 246, 247, 248
- ENGL 155, 170
- INTDIS 180, 181
- MARKET 110
- PSYCH 132
- SOC 130
- THART 120

SPEECH-LANGUAGE PATHOLOGY ASSISTANT (AS)

Required Courses:

- SLPA 119, 120, 121, 122, 123, 124, 125, 126, 127
- ASL 101
- CD 105, 134

Required General Education Courses:

- ENGL 101
- ANAT 101
- HEALTH 102 or HEALTH/PE 263 or 2 units of PE/I activities courses
- ENGL 152 and 155 or 3 units of humanities courses
- PSYCH 100 and POLIT 100 Or HIST 100

Or HIST 101

Select one of the following:

- PSYCH 102, 103, 113, 150
- SOC 100
- And
- SPEECH 100 or 111
- And
- CIS 101 or 255

THEATRE ARTS (AA)

Required Courses:

• THART 100, 108, 120, 175, 176x4 (must be taken four times), 220, 221, 225x4

friendship





Maintenance







SECTION IV

Transfer Programs - General Information

Each four year college or university has its own admissions standards. In addition, each determines which courses will be accepted to satisfy General Education, Major or elective requirements. Further, these requirements are subject to periodic change.

Students who plan to transfer to a four-year college or university should obtain a copy of the current catalog of that institution. Read it **carefully** and see a counselor to discuss appropriate courses to complete at Crafton Hills College prior to transfer.

Fortunately, the similarities between transfer programs are far greater than the differences. Read the information on the following pages to ensure a smooth, succesful transfer.

COMPLETING A TRANSFER PROGRAM

The freshman and sophomore years of a college or university program may be completed at Crafton Hills College. Transfer students may choose one of three systems:

- California State University System (23 campuses)
- University of California System (10 campuses)
- Private or Out-of-State Colleges and Universities

In order to transfer to the college or university of your choice, it is necessary to complete the following:

1. General Education or Breadth Requirements

These are the courses required of every transfer student regardless of major. General Education requirements are determined by the college or university the transfer student has chosen. Listed below are plans for transfer to the California State University System and the University of California System, and some information about transferring to a private or out-of-state institution.

A. California State University (CSU) General Education Requirements. (See Page 122 of catalog).

This plan applies to all 23 CSU campuses. In order to receive full certification and not be held to additional courses at the transfer university, students must complete at least 39 units of General Education in specific areas. When you have completed your General Education classes and all your grades have been reported, see a counselor for certification.

B. Intersegmental General Education Transfer Curriculum (IGETC). See pages 125 and 126 of catalog.

This plan applies to both the CSU and UC systems. However, some schools within the UC system **DO NOT** accept the IGETC plan.

Also, students with majors in Engineering, Science, Math or other high-unit majors are advised not to use IGETC. See a counselor for information. A **minimum** of 37 units of General Education with **at least** a "C" in each course is required to complete the IGETC. When you have completed your General Education classes and all your grades have been reported, see a counselor for certification.

C. Private or Out-of-State Colleges General Education Requirements

Consult the specific catalog of the college of interest and see a counselor. General Education courses for most colleges include ENGL 101, a transfer level math course, and selections from the Arts, Humanities, Social Sciences and Biological and Physical Sciences.

2. Lower Division Courses for a Major.

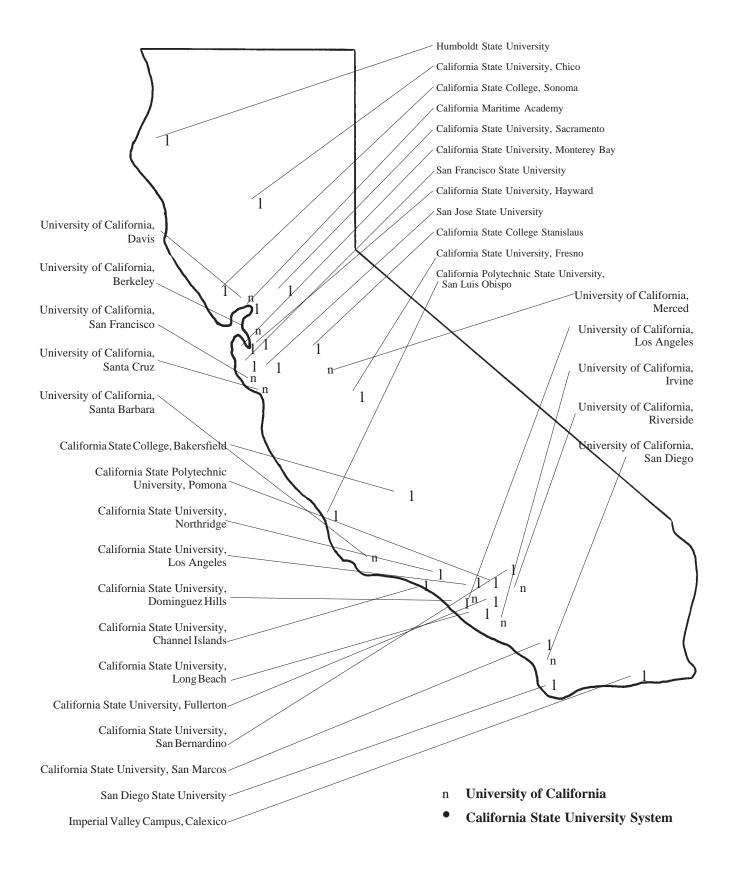
These courses provide the background and preparation needed to enter a college or university at the junior level. Crafton Hills College has articulated lower division major requirements with CSU San Bernardino and UC Riverside. Information for other colleges' lower division requirements is available at **www.assist.org** via the Internet. See a counselor for assistance.

3. <u>Electives</u>

These are courses of choice that are taken to fill in the areas not covered by General Education or major requirements. Students must take enough "elective" courses to meet the minimum number of units required for transfer. The CSU requires at least 56 units to transfer while the UC system requires at least 60 units. (At least 60 transferrable units are required to transfer with junior status.) Private schools vary widely regarding the number of units required for transfer.

4. Acceptable Grade Point Average

The CSU system requires **at least** a 2.0 GPA, while the UC system requires **at least** a 2.4 GPA. However, these figures are minimum GPA requirements! Many colleges and universities and impacted majors within some colleges expect higher grade point averages for admission.



The California State University

The State University system is one of the three branches of public higher education in California. There are twenty three campuses in the system:

CALIFORNIA STATE UNIVERSITY BAKERSFIELD • Q 9001 Stockdale Highway, Bakersfield, CA 93311-1099 (661) 664-3036 • www.csubak.edu

CALIFORNIA STATE UNIVERSITY, CHANNEL ISLANDS • S One University Drive, Camarillo, CA 93012 (805) 437-8400 • www.csuci.edu

CALIFORNIA STATE UNIVERSITY, CHICO • S 400 W. First Street, Chico, CA 95929-0150 (530) 898-6321 • www.csuchico.edu

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS • S 1000 E. Victoria Street, Carson, CA 90747 (310) 243-3696 • www.csudh.edu

CALIFORNIA STATE UNIVERSITY, FRESNO • S 5150 N. Maple Avenue, Fresno, CA 93740-0057 (559) 278-2261 • www.csufresno.edu

CALIFORNIA STATE UNIVERSITY, FULLERTON • S 800 N. State College Boulevard, Fullerton, CA 92834-9480 (714) 278-2300 • www.fullerton.edu

CALIFORNIA STATE UNIVERSITY, HAYWARD • Q 25800 Carlos Bee Blvd., Hayward, CA 94542-3035 (510) 885-2624 • www.csuhayward.edu

HUMBOLDT STATE UNIVERSITY • S 1 Harpst Street, Arcata, CA 95521-4957 (707) 826-4402 • www.humboldt.edu

CALIFORNIA STATE UNIVERSITY, LONG BEACH • S 1250 Bellflower Blvd., Long Beach, CA 90840-0106 (562) 985-5471 • www.csulb.edu

CALIFORNIA STATE UNIVERSITY, Los Angeles • Q 5151 State University Drive, Los Angeles, CA 90032-8530 (323)343-3901 • www.calstatela.edu

CALIFORNIA MARITIME ACADEMY • S 200 Maritime Academy Dr., Vallejo, CA 94590 (800) 561-1945 • www.csum.edu

CALIFORNIA STATE UNIVERSITY, MONTEREY BAY • S 100 Campus Center Drive, Seaside, CA 93955-8001 (831) 582-3518 • www.csumonterey.edu

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE • S 18111 Nordhoff Street, Northridge, CA 91330-8207 (818) 677-3700 • www.csun.edu CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA • Q 3801 W. Temple Ave., Pomona, CA 91768-4003 (909) 869-2000 • www.csupomona.edu

CALIFORNIA STATE UNIVERSITY, SACRAMENTO • S 6000 J Street, Sacramento, CA 95819-6112 (916) 278-6011 • www.csus.edu

CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO • Q 5500 University Parkway, San Bernardino, CA 92407-2397 (909) 880-5200 • www.csusb.edu

SAN DIEGO STATE UNIVERSITY • S 5500 Campanile Drive, San Diego, CA 92182-8225 (619) 594-5200 • www.sdsu.edu

SAN FRANCISCO STATE UNIVERSITY • S 1600 Holloway Avenue, San Francisco, CA 94132-4002 (415) 338-1113 • www.sfsu.edu

San Jose State University • S One Washington Square, San Jose, CA 95192-0009 (408) 283-7500 • www.sjsu.edu

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO • Q San Luis Obispo, CA 93407 (805) 756-2311 • www.calpoly.edu

CALIFORNIA STATE UNIVERSITY, SAN MARCOS • S 333 S. Twin Oaks Valley Road San Marcos, CA 92096-0001 (760) 750-4848 • www.csusm.edu

SONOMA STATE UNIVERSITY • S 1801 E. Cotati Ave., Rohnert Park 94928 (707) 664-2778 • www.sonoma.edu

CALIFORNIA STATE UNIVERSITY, STANISLAUS • 4-1-4 801 W. Monte Vista Ave., Turlock, CA 95382 (209) 667-3151 • www.csustan.edu

S = Semester System Q = Quarter System

CRAFTON HILLS COLLEGE

Ge	CALIFORNIA STATE UNI eneral Provisions:	VERSITY (CSU) GENERA	L EDUCATION REQUIREM	ENTS 2003 - 2004
2. 3.	& Records Office, CHC will certify This pattern of general education IS N	completion of the following pattern OT applicable to any campus of the ersegmental General Education Transf ed in more than one area.	hich may be completed at Crafton Hills to be applied toward the total general e University of California (UC). Please re fer Curriculum (IGETC) for transfer to C THEREAFTER:	ducation requirement at any CSU. fer to the specific UC
A.	COMMUNICATION/CRITICAL			
	 9 units required. Students MUST co. 1. SPEECH 100 or 111 2. ENGL 101 3. ENGL 102 PHIL 103 or SPEECH 	*	listed with a "C" or better prior to tran	sfer.
	Courses from other colleges:		AP exams:	
B.	PHYSICAL AND LIFE SCIEN 9 - 12 units required. Choose at lea Laboratory courses are underlined.		least one of the science courses mu	Met IP Need
	1. Physical Science	2. Life Science	3. Laboratory Activity	4. Mathematics
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	ANAT <u>101, 150, 151</u> BIOL <u>100, 119, 123, 130, 131</u> MICRO <u>102, 150</u> OCEAN 101	This requirement is satisfied by completion of any laboratory course in B1 or B2.	One course required with a "C" or better. MATH 102, 103, 108, 115, 141, 151, 250, 251, 252, 254
	Courses from other colleges:		AP exams:	Met IP Need
	MUSIC 100, 120 SPEECH 120 THART 100, 108, 109	ASL 101, 102, FRENCH 101, 102 HIST 135, 160, 161, 170, 171 INTDIS 101, 102, 140 PHIL 101, 105 RELIG 100, 101, 110, 135, 175, 1 SPEECH 120, 121		Met IP Need
	Courses from other colleges::		AP exams:	
D.	 ANTHRO 100, 102, 106, 107, 110 ECON 100, 200, 201 SOC 141 PSYCH 112, 116 GEOG 120 	aximum per discipline may be applied ST 100 or 101 fulfills the U S Histor , HIST 107, RELIG 110)7, 135, 153, 160, 161, 170, 171, REL 4 116, 118, 133, 150, SOC 150	ry, Constitution & American Ideals require	ements for CSU graduation.
	Courses from other colleges:		AP exams:	
E.	LIFELONG UNDERSTANDING 3 Units required HEALTH 102, 263 PHIL 105 PE/I, PE/T (any - one unit maximum) PE 263 PSYCH 103, 116, 118, 133 SPEECH 140	AND SELF-DEVELOPMENT		
			AP exams:	Met IP Need
Stu			Social Security Number	
Da	teI	Evaluator	Total Units Cen	rtified

- 118 -

I. TRANSFERADMISSION REQUIREMENTS

A. <u>Lower Division Transfer Requirements</u>: If you have completed fewer than 56 transferable semester units, you may qualify for admission if you have a grade point average of 2.0 (C) or better in all transferable units attempted, are in good standing at the last college or university attended, and meet the admission requirements for first-time freshman.

- **B.** <u>Upper Division Transfer</u>: If you have completed at least 56 transferable semester units, have a grade point average of 2.0 (C) or better in all transferable units attempted (nonresidents must have a grade point average of 2.4), and are in good standing at the last college or university attended, you may be eligible one of two ways:
 - 1. You have completed at least 30 semester units of college courses with a grade of C or better **in each course** to be selected from courses in English, arts and humanities, social science, science and mathematics at a level at least equivalent to courses that meet general education requirements. The 30 semester units must include **all** of the general education requirements in communication in the English language (at least 9 semester units to include written communication, oral communication, and critical thinking) **and** mathematics (at least 3 semester units).
 - 2. You have completed all subject requirements required for first-time freshmen at the CSU system. If you did not complete all the subject requirements in high school, appropriate college courses may be used to make up the missing subjects.

II. IMPACTEDPROGRAMS:

The CSU designates programs as impacted when more applications are received in the first month of the filing period than can be accommodated. Some majors are impacted at every campus where they are offered; others may be impacted only at some campuses. Applicants to impacted majors must file the application for admission during the first month of the filing period and will be subject to supplementary admission criteria. If you apply by mail, the postmark will be used to determine if you filed in the first month. Priority for admission to impacted programs is given to California residents.

III. LOWER DIVISION MAJOR REQUIREMENTS

Most majors require that you complete certain preparatory courses in your first two years of college. This can normally be accomplished at a community college. The Counseling/Career & Transfer Center maintains lower division major lists for transfer institutions. These requirements are subject to change. Consult the catalog for the college of your choice to determine regulations governing the completion of lower division major requirements and related restrictions. Refer to ASSIST (www.assist.org) for information about lower division major requirements.

IV. APPLICATION FILING PERIODS

You are urged to file early! Applications to impacted majors must be filed during the initial filing period, which is the **first month** of the filing period. If applying after the initial filing period, consult the campus admissions office for current information. Except for impacted majors, campuses accept applications until enrollment categories are filled. Most campuses will acknowledge receiving your application within two to four weeks.

Terms	Applications First Accepted
Summer Semester or Quarter	February 1
Fall Semester or Quarter	October 1
Winter Quarter	June 1
Spring Semester or Quarter	August 1

APPLICATION FEE

An application fee of \$55 in U. S. funds, payable to The California State University, is required for each new application filed. The fee is nonrefundable and may not be transferred to another term at any campus. The fee is required for **each** campus to which you apply.

The University of California

The University of California has ten major campuses — Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, San Francisco, Santa Barbara, and Santa Cruz. All except Berkeley are on a quarter system. While all campuses have similar general lower division requirements and will accept a maximum of seventy semester units of transfer work, there are some subject differences among them.

UC BERKELEY

Berkeley, CA 94720-5800 (510) 642-6000 • www.berkeley.edu

UC DAVIS

One Shields Avenue, Davis, CA 95616-8507 (530) 752-1011 • www.ucdavis.edu

UC IRVINE Irvine, CA 92697-1075 (949) 824-5011 • www.uci.edu

UC Los Angeles Los Angeles, CA 90095-1436 (310) 825-4321 • www.ucla.edu

UC MERCED

P.O. Box 2039 Merced, CA 95344 (209)724-4400 • www.ucmerced.edu

UC RIVERSIDE Riverside, CA 92521-0119 (909) 787-1012 • www.ucr.edu

UC SAN DIEGO

9500 Gilman Drive, La Jolla, CA 92093-0021 (858) 534-2230 • www.ucsd.edu

UC SAN FRANCISCO

San Francisco, CA 94143-0404 (415) 476-9000 • www.ucsf.edu

UC SANTA BARBARA

Santa Barbara, CA 93106-2016 (805) 893-8000 • www.ucsb.edu

UC SANTA CRUZ

1156 High Street, Santa Cruz, CA 95064 (831) 459-0111 • www.ucsc.edu

MINIMUM ADMISSION REQUIREMENTS FOR TRANSFER APPLICANTS

A transfer applicant, according to the University, is a student who has graduated from high school and enrolled in a regular session at another college or university. A student who meets this definition cannot disregard his or her college record and apply as a freshman.

CALIFORNIA RESIDENTS*

To qualify for admission to the University as a transfer student, a student **must meet one of the three sets of requirements** described below. The pathway the student follows depends upon whether he or she was eligible for admission to the University when he or she graduated from high school.

If the student is a California resident*, he or she must have at least a "C" (2.0) average in all transferable college coursework. The Subject, Scholarship, and Examination Requirements referred to below can be explained by a counselor.

- 1. Students who were eligible for admission to the University when they graduated from high school -- meaning they satisfied the Subject, Scholarship, and Examination Requirements - are eligible to transfer if they have a "C" (2.0) average in transferable coursework.
- 2. Students who met the Scholarship Requirement but not the Subject Requirement must take transferable college courses in the missing subjects, earn a "C" or better in each required course, and have an overall "C" average in all transferable coursework to be eligible to transfer.
- 3. Students who were not eligible for admission to the University when they graduated from high school because they did not meet the Scholarship Requirement must:
 - a. Complete 90 quarter units or 60 semester units of transferable college credit with a grade point average of **at least 2.4** (no more than 14 semester/21 quarter units may be taken Credit/No Credit) and,
 - b. Complete the following course pattern, earning a grade of "C" or better in each course:
 - two transferable college courses (3 semester or 4-5 quarter units each) in English composition; and
 - one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; and
 - four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, the physical and biological sciences.

(Students who satisfy the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC will satisfy Option 3b above of the transfer admission requirements.)

NONRESIDENTS

The minimum admission requirements for nonresident transfer applicants are the same as those for residents, except that nonresidents must have a grade point average of 2.8 or higher in all transferable college coursework.

* Residency Status: The requirements for bonafide California residents also apply to dependents of University of California graduates and employees. The manner in which legal residence is defined for tuition purposes is different. For questions about your residency status, contact the Admissions or Registrar's Office at the appropriate campus.

Intersegmental General Education Transfer Curriculum for Transfer to CSU and UC 2003-2004

Student's Name					
(print)	Last	First	Middle	SSN (or Student I.D. #)	Major

Completion of all of the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the California State University or University of California system without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements. All campuses will accept IGETC EXCEPT for UC, San Diego's Eleanor Roosevelt and Revelle Colleges, UC, Berkeley's School of Business Administration and schools of engineering. **COURSES IN BOLD PRINT ARE APPROVED FOR FALL 2003 AND THEREAFTER.**

The IGETC is not advisable for all transfer students. If you are pursuing a major that requires extensive lower-division preparation, you may be better served by taking courses which fulfill the CSU General Education-Breadth requirements or those of the UC campus or college to which you plan to transfer. Majors include, but are NOT LIMITED to: Engineering, Business, Pre-professional programs. **RESTRICTIONS:** A student who has been registered at a UC campus is not eligible for IGETC. This restriction does not apply to students

who have taken UC summer session or Extension classes only. <u>CERTIFICATION</u>: Be sure to request **CERTIFICATION** when you request transcripts be sent to your choice of university or college. The course requirements for all areas MUST be completed before IGETC can be certified. All courses MUST be completed with grades "C" or better. Consult with a counselor regarding exceptions to these UC policies.

INSTRUCTION TO COUNSELORS: Circle courses and enter units in appropriate column. Requirements satisfied by exam should be noted.

AREA 1 - ENGLISH COMMUNICATION CSU - 3 courses required, one from each group below. UC - 2 courses required, one from group A and one from group B	OTHER COLLEGES AP EXAMS	COMPLETED	IN PROGRESS	REMAINING
Group A: English Composition, 1 course, 3 - 4 semester/ 4 - 5 quarter units. ENGL 101				
Group B: Critical Thinking - English Composition, 1 course, 3 - 4 semester/ 4 - 5 quarter units each course, ENGL 102				
Group C: Oral Communication (CSU only), 1 course, 3 semester/ 4 -5 quarter units, SPEECH 100 or SPEECH 111				
AREA 2 - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING (1 course, 3 - 4 semester/ 4 - 5 quarter units) MATH 102, 108, 115, 141**, 151, 250, 251, 252, 254				
 AREA 3 - ARTS AND HUMANITIES (At least 3 courses with at least one from the Arts and one from the Humanities, 9 semester/12 - 15 quarter units.) ARTS: ART 100, 102, 105; MUSIC 100, 120; 134; THART 100, 108, 109 				
HUMANITIES: ANTHRO 107*, 110* ENGL 150, 152, 155, 160, 163, 170, 175, 250, 260, 261, 270, 271, 275; HIST 100*, 101*, 107*, 135*, 160*, 161*, 170*, 171*; INTDIS 101, 102, 140; PHIL 101, 105; RELIG 100, 101, 110*, 135*, 175, 176 SPAN 103, 104				

[
AREA	4 - SOCIAL AND BEHAVIORAL SCIENCES (At least 3 courses from at least two disciplines, 9 semester/ 12 - 15 quarter units) ANTHRO 100, 102, 106, 107*, 110* ECON 100**, 200, 201; GEOG 120; HIST 100*, 101*, 107*, 135*, 160*, 161*, 170*, 171*; POLIT 100*	OTHER COLLEGES AP FXAMS	COMPLETED	IN PROGRESS	REMAINING
	PSYCH 100, 102, 103, 110, 112, 116, 118, 133 RELIG 110*, 135* SOC 100, 105, 130 , 141				
AREA	 5 - PHYSICAL AND BIOLOGICAL SCIENCES (2 courses required, one Physical Science course and one Biological Science course; at least one must include a laboratory. 7 - 9 semester/ 9 - 12 quarter units.) 	e			
	PHYSICAL: ASTRON 150, <u>160</u> ; CHEM <u>101**, 102**, 150, 151, 212, 213</u> ; GEOG 110, <u>111</u> , 114, <u>114</u> , 126; GEOL <u>100</u> , 101, 150, <u>160</u> , 250; OCEAN 101; PHYSIC <u>100,** 110**,111**,200**,201**</u>				
	BIOLOGICAL: ANAT <u>150, 151,</u> BIOL <u>100, </u> 119 , 123, <u>130, 131</u> ; MICRO <u>102**, 150;</u>				
NOTE	: Lab courses and Labs are underlined.				
UC R	EQUIREMENT ONLY - Language Other Than English Proficiency equivalent to two years of high school with grades of "C" or better, or one year of college study in the same language. The following courses at this institution fulfill the requirement. ASL 102, FRENCH 102, SPAN 102	,			
CSU	REQUIREMENT ONLY - U.S. History, Constitution and American Ideals (Not a part of IGETC; may be completed prior to transfer) (6 semester units, one course from group 1 and one course from group 2) Group 1 - POLIT 100* Group 2 - HIST 100*, 101*				
*	Course may be listed in more than one area, but shall not be certified in Indicates that transfer credit may be limited by UC or CSU or both. Pl consult a counselor.				
NOTE:	Approved courses are added to the IGETC each year. When a course IGETC, it will apply ONLY for the year of approval and thereafter.	is appro	ved f	or	
	- FOR OFFICE USE ONLY -				
	IGETC UNITS CERTIFIED				
Aı	ea 1, Area 2, Area 3, Area 4, Area 5, Total	Units			
	Foreign Language Proficiency Completed: (UC only) Yes				
	U.S. History/Government: (CSU only) Yes				
	*	No			
	<pre>.1 Certification:Course(s) remaining/Area(s)</pre>				
Evan	ator Date				

Private Colleges and Out-of-State Schools

As mentioned before, obtain a current college catalog for the Private or out-of-state school of interest. It is important to read the catalog carefully and then see a counselor to plan a transfer program.

The counseling office has specific transfer requirements for programs at Loma Linda University and approved General Eduation requirement lists for several private colleges, including Biola University, California Lutheren College, University of Redlands and the University of Southern California (USC). Some Private schools allow the use of the Intersegmental General Education Transfer Curriculum (IGETC) to meet lower division General Education requirements. Check with the transfer school for details.

Faculty and Administrators

The dates in parentheses indicate the year of appointment to the San Bernardino Community College District.

ACQUISTAPACE, Kris (1997) English Associate Professor

B.A., Washington University, St. Louis, Missouri M.Ed., University of Southern Mississippi M.A., California State University, Dominguez Hills

ADAMS, Matthew C. (2001) Physics/Astronomy Assistant Professor A.A., Riverside City College, Riverside B.A., University of California, Riverside M.S., Ph.D., University of California, Irvine

ANDREWS, Sandra (1985) Emergency Medical Services Professor A.S., Weber State College

BAHNER, Daniel (1991)..... English Professor B.A., Humboldt State University

M.A., California State University, Long Beach

BEITSCHER, Jane (1991) History Professsor B.A., Pennsylvania State University Ph.D., University of Wisconsin

BELL, Reynaldo V. (2002) Respiratory Therapy Assistant Professor A.S., Victor Valley Community College

B.S., California State University, San Bernardino

BIFFLE, Christopher (1971) Philosophy/Religious Studies **Professor** B.A., University of California, Santa Cruz

M.A., California State University, San Francisco

BOEBINGER, Kelly (1999) Chemistry Associate Professor A.A., Riverside Community College B.A., California State University, San Bernardino M.S., University of California, Riverside
BRAINARD, Tony (1976) Respiratory Care Professor B.A., University of Redlands
BRINK, T.L. (1989) Psychology Professor B.A., Claremont Men's College A.M., Ph.D., University of Chicago M.B.A., Santa Clara University
BRYSON, Kenneth L. (1979) Respiratory Care Professor A.A., Loma Linda University B.V.E., California State University, San Bernardino M.A., University of Redlands
BYRON, Elizabeth J. (1979) Library/Philosophy Professor B.A., University of Redlands M.S., California State University, Fullerton
CHAVIRA, Rejoice (1999) EOPS/CARE/CalWORKs Associate Professor B.A., Chapman University M.A., California State University, Dominguez Hills
CONTRERAS, Alex E. (1997) Student Services Vice President A.A., Southwestern College, Chula Vista

B.B.A., M.S., National University, San Diego

COTA, Marco (1993) Counseling **Professor** A.A., College of the Desert B.A., M.A., California State University, San Bernardino

CRISE, Robert D. (2001) Mathematics **Assistant Professor** B.S., University of California, Riverside M.A., California State University, Fullerton

CROW, Kathy (1998) Emergency Medical Services **Associate Professor** A.S., Riverside Community College B.V.E., California State University, San Bernardino

DAVENPORT, Michael W. (2002) Computer Info. Systems Assistant Professor A.A., Fullerton Community College B.S., California Polytechnic University, San Luis Obispo

DEMING, Merrill (1978) Mathematics **Professor** B.A., The George Washington University

M.A., California State University, San Bernardino DE SALLIERS, Deborah (1976) ... Health & Physical Education

Professor B.S., Pepperdine University M.S., University of California, Los Angeles DrPH, Loma Linda University

DOUTHIT, Mildred M. (2001) Disabled Student Services **Assistant Professor** A.A., Henderson State University B.A., California State University, San Bernardino M.A., Chapman University

FERRACONE, Donna (1989) Instruction

Dean, Program Development R.N., Queen of Angels School of Nursing, Los Angeles B.V.E., California State University, San Bernardino M.A., University of Redlands

FITE, Patrick Y. (2001) Marketing & Public Relations Director B.A., Auburn University, Auburn, Alabama

FRANKLIN, Bradley H. (1979) Respiratory Care **Professor** B.S., University of Missouri

M.Ed., University of Redlands

GIACONA, Judith A. (1981) College Nurse Professor

B.S., Walla Walla College, Washington M.A., University of Redlands

GIBSON, Kathleen R. (1994) Mathematics Professor

A.S., Crafton Hills College B.A., University of Redlands M.A., California State University, San Bernardino

GIST, John E. (1998) Counseling Associate Professor A.A., Santa Ana College B.A., M.S., California State University, San Bernardino HARRINGTON, Judith (1990) Counseling Professor B.A., California State University, Fullerton M.A., Loyola Marymount University HARRISON, Gloria M. (1968) President A.A., San Bernardino Valley College B.A., M.A., University of California, Riverside HEIST, Jeremy W. (2002) English **Assistant Professor** B.A., Harvard College M.A., Washington University, St. Louis **Assistant Professor** B.S., Texas Christian University M.A., Eastern Michigan University HOLBROOK, James (1984) Emergency Medical Services Professor National Registry Emergency Medical Technician Paramedic, Loma Linda University B.V.E., M.A., California State University, San Bernardino Ed.D., Nova Southeastern University HOYT, Denise R. (1998) Computer Info. Systems **Assistant Professor** A.A., Cypress College B.A., California State University, Chico M.A., University of Redlands JOB, Samuel (1984)Library Professor A.A., Merced College B.A., M.L.S., Brigham Young University JONASSON, Mark (1998)Biology Associate Professor B.A., M.A., Pacific Union College M.S., California State University, San Bernardino Ph.D., Loma Linda University JONES, JoAnn (2000) Child Development **Assistant Professor** A.A., College of the Desert B.A., California State University, San Bernardino M.Ed., Azusa Pacific University KOEPER, John (1998) Fire Technology Associate Professor A.S., Chaffey College B.A., National University KOSMATKA, Arnold L. (1978) Respiratory Care Professor A.A.S., Southern Oregon University B.A., Johnston College M.A., University of Redlands Ed.D., Nova University **Associate Professor** B.A., M.A., Moscow State University

LEDOUX, Janine (1991) Health and Physical Education Professor B.S., M.Ed., Bridgewater State College DrPH, Loma Linda University LICERIO, Mamerto D. (1979) Disabled Student Services Professor B.A., M.A., San Francisco State University LOWE, Lynn (1999)Reading Associate Professor A.A., San Bernardino Valley College B.A., M.A., California State University, San Bernardino MANSOURIAN, Farhad (1990) Economics Professor B.S., M.A., University of California, Riverside MATTHEWS, Damaris (1985) Learning Resource Center Professor B.A., Oakwood College M.A., California State University, San Bernardino **Assistant Professor** B.S., M.A., California State University, San Bernardino McCONNELL, Mark D. (2001) Music **Assistant Professor** B.A., University of Northern Colorado, Greeley M.M., University of New Mexico, Albuquerque McCORMICK, Kim (1999) Work Experience Associate Professor A.A., Chaffey College B.S., M.S., University of La Verne McLAREN, Meridyth (2002) Child Development **Assistant Professor** B.A., Denison University M.S., Purdue University MOORE, Sandra B. (1990) Psychology Professor B.A., Northwestern University M.S., Ph.D., University of California, Santa Cruz MORAN, Virginia (2000) Research and Planning Director B.A., M.A., California State University, San Bernardino MUSKAVITCH, John (1999) Financial Aid **Financial Aid Director** A.A., Northern Essex, Haverhill, MA B.S., California State University, Long Beach PACE-PEQUENO, Catherine (2001) Computer Information Systems **Assistant Professor** A.S., Crafton Hills College B.S., M.P.A., California State University, San Bernardino PEREZ, Mario A. (1974) History Professor A.A., San Bernardino Valley College B.A., M.A., University of California, Riverside

PETROVIC, Snezana (2002) Art Assistant Professor B.F.A., University of Belgrade, Yugoslovia M.F.A., University of California, Irvine
PHILLIPS, Theodore P. (2001)Instructional Design/
Assistive Technology Specialist Assistant Professor B.S., California Polytechnic University, Pomona M.A., California State University, San Bernardino
RABAGO, Ralph J. (1989) Health and Physical Education Professor B.A., University of Redlands M.S., University of Idaho
RACE, Aaron J. (2002) English Assistant Professor A.A., Crafton Hills College B.A., California State University, San Bernardino M.F.A., Southern Illinois University Carbondale
RAMIREZ, Stephen J. (2001) Mathematics Assistant Professor A.A., A.S., Mt. San Jacinto Community College B.A., M.A., California State University, San Bernardino
REESE, Gary (2002) Emergency Medical Services Assistant Professor A.S., Crafton Hills College
SADLER, Roger (1999) Biology Associate Professor B.S., Loma Linda University M.S., California State University, San Bernardino
SALT, Kimberly (1999) Chemistry Associate Professor B.S., M.S., Ph.D., University of California, Riverside
SCALITER, Bret (2000) English Assistant Professor A.A., Crafton Hills College B.A., M.A., California State University, San Bernardino
SEARLE-GRASSICK, Jean (1995) Child Development Professor CDA, Santa Monica College B.A., M.A., Pacific Oaks College
SHIMELD, Lisa A. (1989) Microbiology Professor B.A., M.S., California State University, San Bernardino
SHODAHL, Susan A. (1977) InstructionVice PresidentB.A., University of San FranciscoPh.D., University of Nevada, Reno
SNOWHITE, Mark S. (1967) English Professor B.A., University of Maryland M.A., University of California, Riverside
SONDERGAARD-COLVEY, Kirsten (1981) Student Services Dean B.A., University of California, Santa Cruz M.A., California State University, San Bernardino

M.A., California State University, San Bernardino M.S., Pepperdine University **TAYLOR, Katharyn K.** (1979) Respiratory Care **Professor** B.S., California State Polytechnic University, Pomona

THURMAN, Laurens K. (1972) Instruction **Interim Vice President, Administrative Services** B.A., M.A., University of California, Riverside

VAJNA, Susan (1986) Business Information Systems Professor A.A., San Bernardino Valley College

B.A., California State University, San Bernardino

WHITE, Frances (1998) Counseling Associate Professor A.A., San Bernardino Valley College

B.A., M.A., California State University, San Bernardino

WILSON, Sherri (1999) Mathematics Associate Professor B.A., M.S., University of California, Riverside

WINNINGHAM, Laura (1983)Library Professor B.A., B.S., California State Polytechnic University M.A., University of Southern California M.S., California State University, Fullerton

WORD, Daniel (2001) Emergency Medical Services Assistant Professor A.S., Crafton Hills College

WURMBRAND, Marc (1972)Art Professor B.F.A., Cooper Union M.F.A., Yale University

YAMAMOTO, June (1988) Instruction Dean, Instructional Services A.A., Orange Coast College B.A., California State University, Long Beach M.A., California State University, San Bernardino

Adjunct Faculty

The dates in parentheses indicate the year of appointment to the San Bernardino Community College District

M.B.A., California State University, San Bernardino

BLAKE, Samantha (2003) Child Development B.A., California State University, San Bernardino
BOTTROFF, Stephen M. (1997) Speech Ed.D., La Sierra University
BOUSLOUGH, Gail (1997) English M.A., California Polytechnic University, Pomona
BROYLES, Larisa L. (2000) Anthropology Ph.D., University of California, Riverside
CABANILLA, Cliff (1967) Theatre Arts M.A., Brigham Young University
CHRISTENSEN, David W. (1978)Music M.M., University of Redlands
CISMOWSKI, Robert D. (1978) Mathematics M.S., University of Alaska
COLEMAN-REICHMANN, Myralynn (1991) Psychology M.A., California State University, San Bernardino
COWLES, Randee T. (1999)English M.A., California State University, San Bernardino
CRAW, Robert L. (1995) Mathematics M.A., University of Nebraska
CRAWFORD, Barry C. (1999)English Ph.D., University of California, Riverside
DRAKE-GREEN, Penny M. (1996) Speech M.A., California State University, San Bernardino
M.A., California State University, San Bernardino ESCOBAR-PONI, Bertha C. (1999) Anatomy
M.A., California State University, San Bernardino ESCOBAR-PONI, Bertha C. (1999) Anatomy M.D., Universidad Centro-Occidental "Lisandro Alvarado" (Venezuela) FRANKO, Karla J. (1997) Religious Studies
 M.A., California State University, San Bernardino ESCOBAR-PONI, Bertha C. (1999) Anatomy M.D., Universidad Centro-Occidental "Lisandro Alvarado" (Venezuela) FRANKO, Karla J. (1997) Religious Studies M.A., Azusa Pacific University GONZALES, Raymond (1972) Foreign Languages
 M.A., California State University, San Bernardino ESCOBAR-PONI, Bertha C. (1999) Anatomy M.D., Universidad Centro-Occidental "Lisandro Alvarado" (Venezuela) FRANKO, Karla J. (1997) Religious Studies M.A., Azusa Pacific University GONZALES, Raymond (1972) Foreign Languages M.A., University of California, Riverside GOUGH, Alan (2000) Mathematics
 M.A., California State University, San Bernardino ESCOBAR-PONI, Bertha C. (1999)
 M.A., California State University, San Bernardino ESCOBAR-PONI, Bertha C. (1999)
 M.A., California State University, San Bernardino ESCOBAR-PONI, Bertha C. (1999)
 M.A., California State University, San Bernardino ESCOBAR-PONI, Bertha C. (1999) Anatomy M.D., Universidad Centro-Occidental "Lisandro Alvarado" (Venezuela) FRANKO, Karla J. (1997) Religious Studies M.A., Azusa Pacific University GONZALES, Raymond (1972) Foreign Languages M.A., University of California, Riverside GOUGH, Alan (2000)

JOHNSTON, Claude J. (1 B.S., University of Arizon	1971) Mathematics na, Tucson	R E
KADOW, Eugene V. (196 M.A., Fresno State Univer	54) Mathematics/Economics	S N
KELLER, Daniel L. (2000 M.A., California State Uni	0) Administration of Justice iversity, San Bernardino	S N
LLOYD, Gordon (1976). Ph.D., Claremont Graduat	Political Science te School	S E
MAINESS, Karen J. (200 Ph.D., Columbia Universi)1)Speech-Language ity Pathology and Audiology	S E
MBOLO, Bill (2002) M.A., California State Uni		S N
METZINGER, Nancy (19 M.S., Governor State Uni	992) Information Technologies versity, Park Forest	S N
MILLOY, Wayne (1976) . Ed.D., Nova University		S N
MOGHARABI, Roy (200 M.A., University of Berlin	00) Mathematics n, Germany	T N
MOSS, E. David (2002) . M.A., California State Uni		U M
MUNRO, Gordon D. (19 Ph.D., Claremont Graduat	966) Politics te University	V A
McDONOUGH, Judith D Dr. P.H., Loma Linda Uni	D. (1997)Health Education versity	V P
McKINNEY, William R. (M.Div., Vanderbilt Univer	(1974) Psychology rsity, Nashville	V N
NAMEKATA, James S. (M.A., California State Uni	(1999) Physical Education iversity, San Bernardino	V N
NIELSEN, William C., Jr. M.S., Air Force Institute o	. (1981) Physics of Technology	V A
OLMOS-BRISENO, Blar B.A., California State Uni	nca (2002) Spanish versity, San Bernardino	V N
O'TOOLE, Robert L. (199 M.B.A., Azusa Pacific Un	91) Accounting/ niversity Business Administration	V A
PAPP, Edward J. (2003) . B.S., University of Redlar	nds Computer Information	Y E
PASTUSCHEK, Susanne M.F.A., Antioch Universit	L. (2000) Administration of Justice ty, Los Angeles	
POFFEK, Christine (1984 M.A., Azusa Pacific Unive	4) Physical Education ersity	
RAMSEYER, Diana M. (M.A., California State Uni	(2001) English iversity, San Bernardino	
ROCHE, John T. (2002) . M.A., Boston College	Mathematics	

ROSENTHAL, Mary (1998) Mathematics B.S., Union College, Nebraska
SHELBY, Patricia A. (1997)
SHOOK, William (1976) Business Administration/ M.A., California State University, San Bernardino Marketing
SIDHUM, Yehia (1999) Mathematics B.Sc., Cairo, Egypt
SMITH, Eddie (1991) Fire Technology B.A., California State University, San Bernardino
STONE, Clarence E. (1974) Business Administration M.P.A., University of Southern California
SULLIVAN, Jacquelyn G. (1992) Physical Education M.S., California Polytechnic University
SULLIVAN, John M. (1997)English M.A., California State University, San Bernardino
THOMERSON, KatherineEnglish M.A./M.F.A, Wesleyan University, Connecticut
URIA, Jose L. (1989) Spanish M.A.E.D., Azusa Pacific University
VASQUEZ, Henry E. (1988) Emergency Medical Services A.S./A.A., Crafton Hills College
VOLDMAN, Mark (2002) Mathematics Ph.D., Moscow University, Russia
WALKER, Vicki I. (2003)Health Education M.P.H., Loma Linda University
WEINTRAUB, Jarett M. (2002) Philosophy M.A., University of California, Riverside
WHEATON, James J. (1991) Fire Technology A.A./A.S., San Bernardino Valley College
WILSON, Michael J. (2000)History M.A., California State University, Fullerton
WRIGHT, John L. (1978) Physical Education A.A., San Bernardino Valley College
YARNELLE, Edward (1994) Interdisciplinary Studies/ D.A., Ball State University Psychology

PRESIDENT EMERITUS

Luis S. Gomez (1976-2000) President

VICE PRESIDENTS EMERITI

James G. Bisi (1968-1997) Vice President, Student Services Gordon A. Clopine (1961-1997) Vice President, Administrative Services & Professor of Geology/Geography

DEAN EMERITI

Ronald O. Kibby (1977-2001)	Dean, Instructional/
	Occupational Education
Don A. Yowell (1972-1987) Dean	, Student Personnel Services

PROFESSORS EMERITI

Joseph T. Allen (1954-1984) Geology
H. D. Anderson (1946-1978) Foreign Language
Roger C. Anton (1946-1976) President Named Professor Emeritus (posthumously) by the Board of Trustees, June 3, 1977.
George Ashton (1957-1978) History
Olen Baggett (1965-1986) Physical Education
James G. Bisi (1968-1997) Counseling
Doris Boardman (1961-1982)Library
Josephine E. Broholm (1947-1975) Speech
Clifford Cabanilla (1972-2002) Theatre Arts
Marian T. Carter (1970-1993) Speech
Edward L. Chapin, Jr. (1953-1987) Assistant Dean, Continuing Education and Community Services
Gordon A. Clopine (1961-1997) Geology
Jay C. Edwards (1982-1997) Computer & Information Sciences
Robert T. Galbraith (1972-1999) Biology/ Oceanography
Richard H. Gatchel (1971-1987) Philosophy/Religious Studies
Virginia M. Gustad (1970-1987) Office Administration
Luis S. Gomez (1976-2000) President
Kenneth L. Grub (1965-1982) History

William H. Hoyt (1955-1987)	Physical Education
Eugene V. Kadow (1966-1995)	Economics
Francis J. Kling (1965-1992)	Sociology
Clarence D. Lambert (1965-1987)	Chemistry
Arthur F. Miller (1974-1989)	Psychology
Violet Neuman (1976-1997)	Counseling
Harold B. Pigott (1946-1975)	English
Sylvester L. Patrick (1964-1987)	Counseling
Walter C. Schuiling (1964-1984)	History and Politics
V. Dean Stewart (1950-1981)	Chemistry
Linda P. Tung (1972-2001)	Mathematics
Donald R. Wirz (1972-1999)	Chemistry
William R. Wright (1977-1999)	Work Experience

Classified Employees

ALBRIGHT, Gavan Laboratory Technician, Science

AYCOCK, Larry Admissions/Registration & Records, Clerk I

AZELTON, Jim Golf Course/Tennis Court Attendant

BALTZ, Stephen P. Custodial & Warehouse Supervisor

BARABANI, Gino Departmental Network Specialist

BEDOYA, Michael

Art Assistant

BELL, Eva

Student Services Technician II/Special Svcs. Coordinator Asst.

BENJAMIN, Veada Admissions/Registration & Records, Clerk I

BIDNEY, Cynthia

Secretary I, Workforce & Economic Development

BINGHAM, Kelly

Administrative Assistant I, Instruction Office

BIRD, Wanda

Food Service Specialist

BLANTON, Reed

Bookstore Assistant I

BOATMAN, John Grounds Caretaker II

BOGH, Wayne Enterprise Network Specialist

BREAZILE, Sue Secretary I, Fire Science

BRISENO, Humberto S. Grounds Caretaker II

BROWN, Barbara Bookstore Assistant I

BRUNER-JONES, Sherri Clerical Assistant II, Teaching Aids

BRYSON, Richard Custodian/Delivery Driver

BURNHAM, Janet Teaching Assistant, Reading/Study Skills

BURNS, Carole A. Laboratory Technician, Microbiology

CALDERON, Gene Golf Course/Tennis Court Attendant

CAO, Truc Custodian I

CARRILLO, Antonio Grounds, Caretaker II

COLE, Judith Learning Resource Assistant

COLE, Michelle Office Assistant, Student Center

COVINO, Darryl J. Grounds Supervisor

COX, Cheryl Administrative Assistant II, President's Office

COX, Gerard Cafeteria Manager

CROOKS, Beth Account Clerk I, Campus Business Office

CROOKS, Jeremy Custodian Delivery Driver

DE LA FUENTE, Norma Food Service Worker I DIEHL, Carol Book Buyer

EDWARDS, Leroy Maintenance Person

FERNANDEZ, Adriana Child Development Specialist

FUENTES, Gloria Secretary I, Research & Planning

FURTADO, Trudy Account Clerk II, Campus Business Office

GARCIA, Stacy Secretary I, Emergency Medical Services

GIMPLE, Tina Instructional Assessment Tech., DSP&S

GONZALES, Moises Custodian I

GONZALES, Sarah Child Development Specialist

HEEMSTRA, Diana K. Bookstore Manager

HERNANDEZ, Pat Child Development Specialist

HILL, Curtis College Police Officer

HOLMON, Yolanda Child Development Assistant

HYDORN, Beverly A. Secretary III, Instructional Services

IRGANG, Peggy Food Service Worker I

JAURE, Lucy Secretary II, Counseling

JIMENEZ, Susan Secretary I, Health Services

JOHLE, Christina Child Development Specialist

JOHNSTON, Dennis College Police Supervisor KARR, Deborah Admissions/Registrations & Records Clerk II

KIRKHART, Patrick M. Grounds Caretaker II

KIRKHART, Richard Grounds Caretaker II

LABAGNARA, Kathleen Admissions/Registration & Records, Coordinator

LEONARD, Candace Secretary I, Child Development

LITVINOFF, Linda Secretary I, Respiratory Care

LOFTON, Clemit Custodian I

LOVINGFOSS, Stanley W. Laboratory Technician, Physics & Astronomy

MACON, Clifford Maintenance Person

MALDONADO, Carlos Student Services Technician II/Special Svcs. Coord. Asst.

McINTOSH, Cheryl Secretary I, Campus Police

MECHIKOFF, Carmen Library Technical Assistant II

MILLER, Greg Laboratory Technician, Chemistry

MOLNAR, David Laboratory Technician, Biology

MORABITO, Elizabeth Secretary III, EOPS/CARE/CalWORKs

MORENO, Joe Maintenance Person

MORENO, Laurie Bookstore Customer Service Assistant

MOYA, Tanya EOPS/CARE Program Assistant

NAPOLITANO, John College Police Officer NGUYEN, Ben Custodian I

NGUYEN,Long Custodian I

OLMOS, Jose G. Maintenance Person

ORTA, Rebecca Student Services Technician II/Special Svcs. Coord. Asst.

PETERSON, Cynthia Clerical Assistant II, Financial Aid

PIERCE, Leah Instructional/Assessment Technician, Mathematics

REA, Marty Food Service Specialist I

RECORD, Laura F. Administrative Assistant I, Student Services

REGALADO, Arnold Storekeeper II

ROBERTS, Sandra Financial Aid Specialist I

SAENZ, Patricia Clerical Assistant II, Teaching Aids

SANFORD, Ervin C. Custodian I

SOSA, Paul E., Jr. Custodian I

SOUSA, Juana Financial Aid Coordinator

SOUTHERLAND, Frances Assessment Technician

STARR, Amy Child Development Assistant

STEWARD, Gwenn Senior Account Clerk, Campus Business Office

SUFFICOOL, Nicole Switchboard Operator

SUTHERLAND, S. Gary Theatre Technician

TOWNSEND, Jonathan Instructional/Assessment Technician, English TAFOYA-CAMARENA, Patricia Campus Police

TRAILL, Laural E. Learning Resources Assistant

TROST, Susan Instructional/Assessment Technician, Learning Disabilities

VELONI, Shane Instructional Media Technician

VIEIRA, Ezequias Custodian II

VILLESCUSA, Diane Child Development Specialist

WAGNER, June Admissions/Registration Clerk I

WEISCHADLE, Betty Teaching Assistant, Reading Skills

WILLIAMS, Barbara Program Assistant, Disabled Student Services

WILLIAMS, Miriam Office Assistant, Student Center

WINGLER, Jacquelyn Clerical Assistant II, Campus Business Office

CalWORKs Workforce Training Advisory Committee

Bidney, Cindi Crafton Hills College Workforce & Economic Development Department

Bogh, Debbie Redlands Adult School

Bordelon, Cheryl Redlands Adult School

Chavira, Rejoice Crafton Hills College EOPS/CARE/CalWORKs

Colvey, Kirsten Crafton Hills College Dean of Student Services Contreras, Alex Crafton Hills College Vice President of Student Services

Ferracone, Donna Crafton Hills College Dean of Program Development

Giacona, Judy Crafton Hills College Health Services Department Coordinator

Gimple, Tina Crafton Hills College Disabled Student Program & Services Department

Griffin, Becky San Bernardino County JESD

Griswold, Tom State of California EDD

Harrison, Gloria Crafton Hills College President

Holmlund, Linda Redlands GAIN

Houston, Stephanie Redlands ROP

Jones, JoAnn Crafton Hills College Child Development & Education Department Faculty

Licerio, Marty Crafton Hills College Disabled Student Program & Services Department Coordinator

Likens, Mike Yucaipa/Calimesa School District

Likens, Christine Craig & Sons Termite & Pest Control

Lynch, Juliette San Bernardino County Superintendent of Schools

Matthews, Damaris Crafton Hills College Learning Resource Center Coordinator

May, Adrian Crafton Hills College Student McCormick, Kim Crafton Hills College Work Experience Faculty

Morabito, Beth Crafton Hills College EOPS/CARE/CalWORKs

Moran, Ginny Crafton Hills College Research and Planning Department Director

Moreno, Serena San Bernardino County Superintendent of Schools

Morris, Dalene Redlands ROP

Muskavitch, John Crafton Hills College Financial Aid Department Director

Orta, Rebecca Crafton Hills College Student Success Advisor

Pace-Pequeno, Catherine Crafton Hills College Faculty, Computer Information Systems

Rodriguez, Al State of California EDD

Searle-Grassick, Jean Crafton Hills College Department Head, Child Development and Education

Shodahl, Susan Crafton Hills College Vice President of Instruction

Sousa, John Cal State San Bernardino EOP

Swanston, Shellie Redlands JESD

Todaro, Joan Banning GAIN

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Alvarez, Kit CRY/ROP Manager

Bean, Joan Valley Preparatory School Director, Preschool

Brayton, Shelly Redlands East Valley High School Instructor

Brunean, Cathy Christ the King Child Care Center Director

Christopherson, Christina Franklin Elementary School Principal

Coleman-Reichman, Myralynn Crafton Hills College Adjunct Faculty

Connolly, Leo Cal State University, San Bernardino Liberal Studies Coordinator

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Kamptner, Laura Cal State University, San Bernardino Director

Regalado, David Bryn Mawr Elementary School Principal

Knight, Denise San Bernardino Valley College Director of Child Care Center

Konold, Thais Redlands High School Instructor

Lara, Mille Redlands Day Nursery II Director

Mangee, Julie Arroyo Valley High School Instructor

Mann, Douglas Valley Preparatory School Head Master

Marshburn, Toni Kingsbury Elementary School Principal

Martin, Julianne San Bernardino Valley College Child Development Coordinator

Mathis, Susan School Linked Services Child Development Counselor

Matthew, Kathy Cajon High School Instructor McClain, Winnie Headstart

Moore, Randy Pacific High School

Muskavitch, John Crafton Hills College Financial Aid

Neuhaus, Angela Victoria Elementary School Principal

Pope, Evan San Bernardino City Schools Instructor

Prentice, Cindy CRY/ROP Program Manager

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Rea, Anita All Red Child Development Center District Coordinator

Requejo, Erma Redlands Community Hospital

Scott-Toux, Debra Eisenhower High School Instructor

Searle-Grassick, Jean Crafton Hills College Department Head, Child Development and Education

Silvestry, Annie Tender Care Children's Center of Redlands Director

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Yoon, Philip Lugonia Elementary School Principal

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Holbrook, Jim Crafton Hills College Department Head of Emergency Services

LaRusso, Lisa American Medical Response

McKee, Mitchall Battalion Chief, Redlands Fire Department

Momsen, Sara Inland Counties Emergency Medical Agency

Nguyen, Phong, M.D. Crafton Hills College Medical Director

Ortega, David California Department of Forestry Emergency Medical Technician-Paramedic

Petrilla, Karen Riverside County, Emergency Medical Services

Reese, Gary Crafton Hills College Faculty, Emergency Medical Services Department

Rose, Eric Captain, California Department of Forestry Smith, Virginia San Antonio Community Hospital Paramedic Liaison Nurse

Tyson, Bob Redlands Community Hospital Paramedic Liaison Nurse

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Krisco, Andrea Operations Manager, Kelly Services

Mack, Stacy Office Manager, Arrow Staff Services

Mesa, Ben San Bernardino County Superintendent of Schools

Pace-Pequeno, Catherine Crafton Hills College Faculty, Computer Information Systems

Patterson, Terri Office Manager, Arrow Staff Services

Sharp, Larry EDD - Redlands

Stewart, Walt, Dr. Cal State University San Bernardino

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Cairney, John Manager of Medical Imaging Arrowhead Regional Medical Center

Ellis, Meaghan Associate Administrator of Professional Services Arrowhead Regional Medical Center

Ferracone, Donna Crafton Hills College Dean of Program Development

Fujimoto, Byron, M.D. Program Medical Director Arrowhead Regional Medical Center

Hanson, Barbara Contract Compliance Officer Arrowhead Regional Medical Center

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Senior Class Representative Crafton Hills College

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Bryson, Ken, R.R.T. Crafton Hills College Department Head of Allied Health

Broman, Don, R.R.T. St. Bernardine Medical Center

Davidson, James, R.R.T. Foothill Oxygen Services, Inc.

Ferracone, Donna Crafton Hills College Dean of Program Development

Franklin, Brad, R.R.T. Crafton Hills College Faculty, Respiratory Care Department

Haller, Colene, R.R.T. Arrowhead Regional Medical Center

Hartman, Lynne, R.R.T. Riverside County Regional Medical Center

Hulten, Gary, R.R.T. Crafton Hills College Adjunct Faculty, Respiratory Care Department

Kosmatka, Arnie, R.R.T. Crafton Hills College Faculty, Respiratory Care Department

Langga, Leo, R.R.T. Loma Linda University Medical Center Langdon, Ed, R.R.T. St. Bernardine Medical Center

Lockridge, Hank, R.R.T. Riverside County Regional Medical Center

Molle, Cindy, R.R.T. Arrowhead Regional Medical Center

Musselman, Susan, R.R.T. Riverside Community Hospital

Robinson, Mark, M.D. Arrowhead Regional Medical Center

Scott, Randy, R.R.T. Loma Linda University Medical Center

Sheldon, Richard, M.D. Beaver Medical Clinic, Inc., Crafton Hills College Medical Director

Shepard, Bruce, M.D. St. Bernardine Medical Center

Taylor, Kathy, R.R.T. Crafton Hills College Faculty, Respiratory Care Department

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Representative Arrowhead Regional Medical Center

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