COLLEGE OF THE SEQUOIAS



Welcome to

College of the Sequoias

College of Sequoias is part of this nation's largest system of higher education. In California alone 1.5 million students enroll in community colleges every year. COS now serves more than 8,500 students.

For the past four years, COS has experienced significant enrollment increases placing a greater demand on the existing facilities and equipment at the college. With the UC and CSU systems facing decreased funding and the rise in unemployment, more and more students will turn to community colleges for lowerdivision course requirements and retraining in new technologies.

The COS Board of Trustees supports an aggressive facilities construction plan to accommodate the increasing number of students



Keith Sheffield/Campus Staff

seeking admission. Construction and planning for future construction will be a way of life at COS for the next several years.

Recognizing the need for innovative solutions in difficult times, COS and Fresno State University have formed a partnership allowing many residents to further their education on the COS campus by taking upper division courses offered by Fresno State University.

COS will continue to explore partnerships with business and education with an emphasis on building for the future while adapting to the changing needs of the residents of our District.

Robert A. Lombardi Superintendent and President



Catalog and Announcement of Courses

College of the Sequoias A Public Community College

1991-1992



COLLEGE OF THE SEQUOIAS COMMUNITY COLLEGE DISTRICT 915 Mooney Boulevard Visalia, California 93277 (209) 730-3700

Published by the Board of Trustees

The College of the Sequoias is a member of the American Association of Community and Junior Colleges and the Community College League of California. The college is officially accredited by the Western Association of Schools and Colleges and is approved for veteran training under both State and Federal laws. The University of California and other colleges and universities of high rank give full credit for appropriate courses completed at College of the Sequoias.

The College

College of the Sequoias Community College District was established in 1925 and moved to its current 55 - acre site in 1940. In addition to the primary campus, COS conducts an agriculture program on a 120 acre farm as well as offering general education coursework in nearby communities including a college center in the City of Hanford.

Serving more than 8,500 students with a wide variety of academic and vocational programs, the college administration, faculty and staff are committed to the principle that society benefits when all its members have an opportunity to develop to their fullest potential. We are dedicated to reaching out to a diversified, changing population which has increased by more than 20 percent in the past decade.

Many of our students come to COS in order to take the first two years of undergraduate coursework before transferring to a four-year college or university.

A large portion of our students take specific vocational coursework as job preparation or to improve their skills and knowledge for positions of current employment. Classes for these students, as well as classes for self-satisfaction and personal improvement, are offered through a wide variety of day and evening c lasses on the campus and a number of community facilities.



College of the Sequoias, with its strategic location, its excellent buildings and facilities and welltrained staff, will continue to respond to the needs of the community by serving as a center of culture and intellectual vitality.

The Community

College of the Sequoias is located in Visalia, a community which has grown by more than 29 percent since 1980. The population of Visalia has reached approximately 75,000 while Tulare County reflected a similar growth rate in reaching a population of approximately 305,000.

Visalia which is situated just an hours drive from the mountains on the east and two hours from the ocean on the west is known as the Gateway to the Redwoods. Our small town catches the eye of many people passing through as a quiet, well-groomed town still with the small town image. Visalians enjoy a symphony orchestra, two ballet groups and several theater groups. Visalia also features 20 city parks, 5 golf courses, 8 theaters and 2 hospitals.

Although Visalia enjoys a retail and professional sector, Tulare County is predominately agricultural. It is the second most productive agricultural county in the world.

The Student

College of the Sequoias' is well represented by a variety of ethnic backgrounds.

College of the Sequoias is represented predominately by students who live in Visalia, Exeter, Porterville, Hanford, Corcoran, Orosi, Tulare, Cutler, Farmersville, Lindsay, Woodlake.

1.11



TABLE OF CONTENTS

General Information	••••••	. 1
Admission	•••••••••••••••••••••••••••••••••••••••	. 13
Academics	· · · · · · · · · · · · · · · · · · ·	. 21
Student Rights and Responsibilities		. 31
Student Services	•••••••••••••••••••••••••••••••••••••••	. 37
Graduation and Transfer Requirements		. 45
Certificate Programs	•••••••••••••••••••••••••••••••••••••••	. 65
Course Descriptions		.111
Faculty	•••••••••••••••••••••••••••••••••••••••	.196
Index		.207

JASON ELLIS, Catalog Cover Designer

Jason Ellis designed the COS catalog cover in his COS graphic design class. Jason took four years of mechanical drawing at Mt. Whitney High School where he graduated in 1988. At COS he discovered how much he enjoyed taking art and graphics classes. He changed his major from architecture to graphic design and will transfer to CSU, Fresno next fall majoring in graphic arts.

Photographers:

Greg Halliwill, Bill Schell, and photographers from the college newspaper, The Campus.

Academic Calendar

Fall Semester, 1991

August 19, 1991—December 20, 1991

May 1Last Da	y to Petition for Fall 1991 Readmission after Scholastic Disqualification
August*	
August 14	Registration for High School Accelerates
August 14	Last day to have application on file
August 14	Last day to take COS Placement test before Fall semester
August 19	
August 19-23	
August 30	Last Day to Drop a Class Without a "W"
September 2	Labor Day Holiday (no classes)
September 27	Last Day to File for Associate Degree
October 11	Mid-Semester
November 1	Last Day to Petition for Spring 1992 Readmission
	After Scholastic Disqualification
November 11	
November 15	Last Day to Drop Classes
November*	Registration-Continuing Students
	Extended Day Final Exams
December 16-20	
December 20	End of Semester
December 20	Last Day to Remove Incomplete "I" Grade for the Spring 1991 Semester
	and 1991 Summer School
December 23-31	Christmas Recess (Holiday)
January 1-10	

*Contact Registration Coordinator for specific dates.

COS PLACEMENT TEST IS ADMINISTERED PERIODICALLY THROUGHOUT THE YEAR. CONTACT ASSESSMENT CENTER FOR SPECIFIC DATES AT 730-3737.

5

Academic Calendar

Spring Semester, 1992

January 13, 1992-May 27, 1992

November 1	Last Day to Detition for Spring 1000 Deadmission After
	Last Day to Petition for Spring 1992 Readmission After
	Scholastic Disqualification
January*	
January 8	Registration for Eligible Students Last Day to have Application on file
January 8	Registration of High School Accelerates
January 13	Instruction Begins
January 13-17	Program Changes (with instructor's permission)
January 20	
	Last Day to Drop a Class Without a "W"
February 7	Lincoln's Birthday Holiday (no classes)
	Last Day to File for an Associate Degree
	Financial Aid Deadline for New and Transferring Students
	Easter Recess
	Last Day to Drop Classes
May 1Last Day to Petition f	or Fall 1992 Readmission After Scholastic Disqualification
May 18-21	Extended Day Final Exams
May 20-27	
May 27	Commencement/End of Semester
	ay to Make Up Incomplete "I" grade for Fall 1991 Semester
Ounc 10-Ouly 24	

*Contact Registration Coordinator for specific dates.

COS PLACEMENT TEST IS ADMINISTERED PERIODICALLY THROUGHOUT THE YEAR. CONTACT ASSESSMENT CENTER FOR SPECIFIC DATES AT 730-3737.

BOARD OF TRUSTEES

Ned F. Baker Vice President (Ward 3)

Luther Khachigian (Ward 1)

Lee M. Lockhart President (Ward 5)

Robert Lyman Clerk (Ward 4)

Louis E. Sweet (Ward 2)

The College of the Sequoias **Community College District** has made every reasonable effort to determine that information stated in this catalog is accurate. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the Administration of the College of the Sequoias **Community College District** for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District. The District further reserves the right to add, amend, or repeal any of their rules, regulations, policies, and procedures.

Compliance Statement

College of the Sequoias does not discriminate on the basis of race, color, national origin, sex (including sexual harassment), handicap (or disability), or age in any of its policies, procedures, or practices, in compliance with Title VI of the Civil Rights Act of 1964 (Pertaining to race, color, and national origin), Title IX of the Education Amendments of 1972 (pertaining to sex), Section 504 of the Rehabilitations Act of 1973 (pertaining to handicap), and the Age Discrimination Act of 1975 (pertaining to age). This nondiscrimination policy covers admission and access to, and treatment and employment in, the College's programs and activities, including vocational education. Inquiries regarding the equal opportunity policies, the filing of grievance, or to request a copy of the grievance procedures covering discrimination complaints may be directed to:

To be Named, Affirmative Action Officer Mr. David Bockman, Title IX Coordinator Mr. Donald Mast, Section 504 Coordinator

College of the Sequoias 915 South Mooney Boulevard Visalia, California 93277 (209) 730-3700

The lack of English language skills will not be a barrier to admission and participation in the college's vocational education programs.

College of the Sequoias recognizes its obligation to provide overall program accessibility throughout the College for handicapped persons. Contact the Section 504 Coordinator to obtain information as to the existence and location of services, activities, and facilities that are accessible to and usable by handicapped persons.

Inquiries regarding Federal laws and regulations concerning nondiscrimination in education or the District compliance with those provisions may also be directed to:

> Office for Civil Rights U.S. Department of Education 221 Main Street, Suite 1020 San Francisco, California 94105

College of the Sequoias is an equal opportunity affirmative action employer.

College Administration

Dr. William Shawl (Interim) Vice President, Instruction

Dr. David C. Bockman Dean of Instruction Applied Sciences

Dr. Dianne Sharples Dean of Instruction Evening College & Liberal Arts

Dr. Lynn Mirviss Associate Dean, Instruction Nursing

Mr. Gary Kuncl Director Police Training/Public Safety

> Mr. Larry Burge Coordinator P.O.S.T. Basic Police Academy

Dr. Robert A. Lombardi Superintendent/President

Mr. David J. Erickson Vice President Administrative Services

Mr. Dave Adams Director of Campus Facilities and Operations

> Mr. Victor Collins Personnel Manager

Mr. Joe Nemcek Director Information Services

Mr. Don Mast Associate Dean Enabler Program Dr. Don Goodyear Vice President Student Services

Mr. Bill Bettencourt Dean of Students

Mr. Robert G. Heath Dean Admissions and Records

Ms. Christina Knox Associate Dean Matriculation

Mr. Richard Grajeda Associate Dean EOPS

Mr. Ronald Hays Dean Special Student Services

Mr. Dale Norton Director Precollegiate Studies

College of the Sequoias Foundation

College of the Sequoias and the San Joaquin Valley are partners in progress, each relying upon the other for strength and support. The COS Foundation shares in this partnership. Supported by members of our area, the Foundation greatly enhances services the college provides to students.

The COS Foundation was organized in the fall of 1985 to assist the college in the attainment of its educational, cultural and scientific goals. It raises funds for the college and also solicits donations of property and other assets. Contributions are used for such things as construction, scholarships, equipment and other outlay needs. Donations can be given in a number of ways: cash, stock, real property, deferred gifts, memorials, matching gifts and scholarships.

Gifts to the Foundation aid the college in providing quality education at an affordable cost, ensuring that College of the Sequoias will continue to graduate well-trained, competent men and women who will take their places in the business, industry and service occupations of our valley.

Persons desiring to learn how they may contribute to the COS Foundation and the work of the College of the Sequoias are invited to contact Dr. Edmund Carlson in the Foundation Office at COS, 730-3861.

College of the Sequoias Facilities

Traditional facilities at the campus include lecture classrooms; science laboratories; computer laboratories in English, Math, Business, and Nursing; photography laboratory; a multi-purpose gymnasium; theater; an industrial and automotive technology complexes; a library and media center; a learning resource center; administrative and Student Services offices, an Enabler Skills complex; cafeteria, book store, and student activities office.

Recreational facilities include a track and field complex; outdoor tennis, racquet ball courts; basketball and volleyball courts (gym); softball, baseball, and football fields; weight room which utilizes both nautilis and free weights; and an outdoor stage.

In addition, College of the Sequoias has developed facilities that support its academic programs.

Children's Learning Center

Serving as a training laboratory for Child Development program majors as well as a child care center for students and community members, the professionally staffed Children's Learning Center offers an outstanding pre-school program. Facilities include a well-equipped playroom, cafeteria complex and fenced playground.

<u>Farm</u>

The COS Farm provides each agriculture student with hands on, learn-by-doing education in a wide range of skills. The laboratory consists of a 70-cow Registered Holstien herd which is one of the top herds in the area of milk production. A complete horticulture facility provides students with practical, current landscape practices while working in the unit during class laboratories or after hours at student work sites. The 120 acre laboratory provides students with worksites in animal science, horse production, dairy, ornamental horticulture, floriculture, turf culture, crop production, vegetable gardening and soils.

Hanford Center

College of the Sequoias has a center at 217 West 7th Street in Hanford, California. A wide variety of general education classes and some vocational classes are offered at that site during day and evening hours. Services available to students including testing, orientation, counseling, registration, tutoring, and book sales. Call (209) 583-8373 for further information.

Off-Campus Sites

 \mathbf{T} o make it easier for COS students to attend classes, the college offers regular accredited courses at nine off-campus locations within the district.

During registration, students may sign up for off-campus classes during regular registration hours on campus or during the first class ession at off-campus sites.

OFF CAMPUS LOCATIONS

CORCORAN Corcoran High School Whitley & Letts Avenues

John Muir School Letts and Bell Avenues

Kings Lake School 1520 Patterson Avenue

CUTLER/OROSI Cutler-Orosi Unified High School 418 Road 128

EXETER Exeter High School 820 San Juan Avenue

FARMERSVILLE Farmersville Senior Center

HANFORD Hanford COS Center 217 West 7th Street Rooms: 1-4 Hanford Adult School 905 North Campus Rooms: 1-10

Hanford High School-West 1150 West Lacey Rooms: 101-758

Hanford High School-East 120 East Grangeville Rooms: 21-95

LINDSAY Lindsay High School 1701 East Tulare Road

WOODLAKE Woodlake Union High 400 West Whitney

THREE RIVERS Three Rivers Elementary School 41932 Sierra Drive

TULARE Tulare Union High School 755 East Tulare

California State University, Fresno

The CSUF/COS Visalia Center is a cooperative effort involving California State University, Fresno and College of the Sequoias in an effort to expand public higher education in the south valley region. The primary goals of this Center are to provide an opportunity for upper division and post baccalaureate students to complete their educational goals, and to provide effective student support services that will meet the individual needs of each student.

Academic Programs

The following Degree and Credential programs are offered through the CSUF/COS Center:

Bachelor Degrees

Liberal Studies B.A.; Business B.S. (partial); Nursing B.S. (partial)

Master of Education Degree

Option in Administration and Supervision; Option in School Counseling (partial) Master of Special Education (Partial)

California Education Credentials

Multiple Subject Credential; Single Subject Credential; Administrative Services Credential; Pupil Personnel Services Credential (partial)

Student Services

The following Student Affairs Services are available to students.

Admissions Career Planning Transfer Agreements Academic Advising Registration Outreach Services Reentry Services Financial Aid

For Further Information

The CSUF/COS Center is located west of the Business Building and north of the Library (Building 17). Hours are 8:00 a.m. - 7:30 p.m., Monday through Thursday, and 8:00 a.m. - 5:00 p.m. on Fridays. Telephone number: 625-3950.



Map of the College Farm



GENERAL INFORMATION 1 14. 2. 2 24 10.

-	-0	<u>OFTHE</u>		,
	- 2	eyuou		
	/			
	-	NUMERICAL LIST		<u> </u>
. Administration South	11.	700 Building	22.	Tennis
Student Services	12.	Library	23.	Safety Services
2. Health Center	13.	Instructional Media Center	24.	Transportation
2. Administration North	14.	Gymnasium	25.	Print Shop
. Administrative Offices	14A.	Athletic Office	26.	Journalism
. Giant Statue	14B.	Student Activities Office	27.	Consumer/Family Studies*
. Theatre	15.	Gym Annex	28.	Gain
. Music	16.	Adaptive P.E.	29.	Student Union
. Lecture Hall	17.	CSUF/COS Center	30.	Industry & Technology West
 Life Sciences/Math 	18.	Pool	31.	Industry & Technology East
. Social Sciences	19.	Racquetbali	32.	Building Trades
	20.	Facilities Shops	33.	Bookstore
 Portable Classroom 				

◆C O L L E G E◆

ALPHABETICAL LIST

Adaptive P.E	Drafting Technology	Mill Cabinet Lab
Administration 2A	EOP&5 I	Music
Administration of Justice 11	Electronics Technology 30	Music Library 5
Admissions & Records 1	Engbler Classroom	Nursing Lab 10
Air Conditioning Technology . 31	Enabler Office	Nursing Office 10
Architectural Technology 31	English 11 & 27	Photography
Art 1	Facilities Shops	Physics 2
Art Gallery 4	Facilities and	Pool
Assessment & Testing 1A		Portable Classroom
Assessment & lesting 14A	Operations Office 32	
	Financial Aids 1	Print Shop 25
Automotive Technology 30	Foreign Language 11	Public Information Office 13
Biology 7	Foundation Office 13	Racquetball 19
Board Room 2A	Giant Statue 3	Receiving 32
Bookstore 33	Gymnasium 14	Scholarship Services
Box Office 4	Gym Annex 15	Science
Business 11	Handball 21	Social Sciences 8
California State University	Health Center	Student Activities Office 14B
Fresno/COS Center 17	Home Economics	Student Services Center 1
Career Center	Industry & Technology 30 & 31	Student Union 29
Cashier's Office 2A	Information 2A	Tennis
Chemistry 2	Instructional Media Center 13	Theatre 4
Community Services 2A	Journalism	Training Room
Computer Services 11	JTPA/GAIN 28	Transfer Center 1A
Construction Technology 32	Lecture Hall	Transportation
Consumer/Family Studies 27	Library 12	Veteran Services 1
Cooperative Education	Maintenance Technology 31	Welding Technology 31
Office 2	Metals Lab	Women's Locker Room 14B
Counseling Center 1A	Math	700 Building
Dance Studio	Men's Locker Room	

Mission and Goals of the College

COLLEGE MISSION

The College of the Sequoias is a community oriented, open-door lower division educational institution dedicated to the principle that society benefits when all its members have an opportunity to develop to their fullest potential.

We are dedicated to reaching out and serving a diversified, changing population during their lifelong learning process through the development of a current, responsive, flexible, creative and meaningful curriculum and teaching framework.

In pursuit of its four-fold mission in the areas of transfer, vocational, and remedial education and community service, COS will endeavor to:

- * Remain sensitive to the needs of the students by providing appropriate assessment, matriculation, career guidance, and cultural awareness:
- * Respond to the needs of the community by serving as a center of culture and intellectual vitality;
- * Meet the needs of the staff by nurturing their intellectual, professional, emotional and per sonal growth; and
- * Operate in the most accountable, creative, cost-effective manner possible.

COLLEGE OBJECTIVES

The instructional offerings and support services are designed to meet a variety of educational needs of the community and include the following objectives:

RESPONSIBILITY TO AND INVOLVEMENT OF THE COMMUNITY

The district's primary responsibility is to meet the changing educational needs of its adult population. This responsibility is achieved through community participation in planning, educational offerings and community services.

OPEN ACCESS PRINCIPLE

The district maintains an open access admissions policy. Enrollment is open to any person who is a high school graduate or who is 18 years of age or over and able to benefit from instruction. Enrollment is also open to high school students who qualify for enrollment.

STUDENT SERVICES AND PROGRAMS

General Education

To provide courses that help students value cultural similarities and differences, attain a sense of self-worth and personal emotional stability, develop critical thinking, maintain physical health and fitness, gain aesthetic awareness, understand the environment and its ecology, and increase the student's abilities to cope with everyday living as an adult in a rapidly changing world.

Transfer Curriculum

To provide quality programs which develop the intellectual potential and other prerequisite courses so students may successfully transfer with advanced standing to four-year colleges and universities.

Vocational and Technical Training

To provide degree and certificate programs and special courses designed to prepare students with skills and competencies leading to successful competition in the job market.

Citizenship Education

To provide training and experiences which will prepare every student to function effectively as a patriotic citizen with pride in the United States of America.

Employment Development

To provide training and assistance in obtaining the knowledge and skills for pursuing employment opportunities.

Support Services

To provide a broad base of support services to assist students in successfully attaining their academic and occupational goals. Included are comprehensive counseling and guidance services, assessment, financial aid and scholarships, job placement, veterans' assistance, tutorial programs, disabled student programs and extended opportunity services.

COLLEGE OBJECTIVES (Continued)

Remediation

To provide courses that enable students to acquire language skills to enhance their ability to benefit from the college's instruction programs.

Community Services

To provide fee-based educational opportunities including professional growth, personal enrichment and athletic/recreational opportunities.

<u>Adult and Lifelong Learning</u> <u>Education</u>

To provide courses leading to upgrading of educational skills, new skill preparation, or instruction to meet the needs of adults in the district.





History of the College

The college was established by the Visalia Union High School Board of Trustees as Visalia Junior College in 1925, and offered the first post-high school instruction to students of this area beginning September, 1926. College classes were housed in the Visalia Union High School plant until September, 1940. At that time, the college moved to its own campus southwest of Visalia where new buildings had been completed.

On January 18, 1949, the voters of Tulare Union High School District and the Visalia Union High School District elected to organize the area in these two high school districts into a junior-college district. During the spring the students voted on a name for the newly-formed junior-college district. From the names suggested by the students, the Board of Trustees chose the name, College of the Sequoias.

In 1950, voters in the Exeter Union High School, Woodlake Union High School and Lindsay Unified District voted to join the COS District. In 1962, the Orosi Union High School, Corcoran Unified, Hanford High School and Westside Unified Districts elected to join the district. In 1976, the Strathmore High School District joined the COS District.



ADMISSION

Eligibility for admission

Any graduate of an accredited high school may be admitted to College of the Sequoias. Also, any person having successfully completed the California High School Proficiency Examination (CHSPE) or the General Educational Development Test (G.E.D.) with scores of 45 overall and with no subtest lower than 35 may be admitted.

Upon completion of applicable admission requirements, registration permits are issued by the Admissions and Records Office. For dates relating to registration, check the calendar in the front of the catalog or inquire at the college Office of Admissions and Records, Room 107.

Placement Tests

College of the Sequoias requires that all students entering directly from high school take the COS Placement Test prior to program advising and admission to the college. All others who have an AA/AS degree objective or which to enroll in any English or Math class or any class with a math and/or English prerequisite, must also take the test. Tests are administered on several days throughout the year. Information on test dates and test registration may be obtained by contacting Student Serices. Math Placement test scores are valid for only three semesters. Students not enrolling during this time will be required to retake the COS Math Placement test. Also, all students who wish to enroll in Chemistry 1 must take the Chemistry Placement Test.

Provisional Admission of Students

The college may admit other persons 18 years of age or over when the evidence indicates that the individual will benefit from college level instruction. Students are encouraged to complete high school prior to enrolling in the college.

An applicant to a district college who is 18 years of age or over and is not a high school graduate may enroll as a provisional student for 12 semester units or more for one semesters as a full-time student, he/she must earn a 2.0 GPA in the units attempted. This regulation does not apply to part-time students.

<u>Summary of Admission Requirements</u> for Full-Time Students (12 or more <u>units</u>)

Full matriculation will be required of any student who intends to enroll for 12 or more units of credit. A part-time student is one who enrolls for less than 12 units. Full matriculation shall require that a prospective student:

- 1. File a completed admission application prior to the deadline as specified in the catalog.
- 2. If you are under 21 years of age, request the last high school attended to send one transcript of work completed or attempted. If you have attended college, we require only college transcripts. Transcripts are to be official copies sent directly from previous schools to the Admissions and Records Office. College of the Sequoias, 915 S. Mooney Blvd., Visalia, CA 93277.
- 3. If the G.E.D. Test or the California High School Proficiency Examination (CHSPE) was taken in the last two years, have the G.E.D. scores or a copy of the CHSPE Certificate sent to the Admissions and Records Office.
- Request each college of attendance to send one complete transcript of work attempted, whether or not credit was earned. Transcripts are to be official copies sent directly from the previous schools to College of the Sequoias. The first official copy of the transcript should be mailed to the ADMISSIONS OFFICE at COS. Also an official copy and any other transcripts required should be mailed to the offices listed below IF participating in any of the following programs: 1) Financial Aids Office; 2) Veterans' Office; 3) Mini-Corps Office; 4) Nursing Office.

Summary of Admission Requirements for Part-time Students (11 1/2 or Fewer Units)

- 1. File a completed admission application prior to the deadline as specified in the catalog.
- 2. File one transcript of all previous high school and/or college academic records if the student wishes to:
 - a. Apply for a Certificate of Achievement or an Associate Degree

ADMISSION

- b. Apply for financial assistance (EOPS, financial aid, veterans)
- c. Apply for special programs, particularly in the health arts and sciences
- d. Validate that a prerequisite has been met either in high school or at another college

Advanced Placement

College of the Sequoias recognizes high achievement by students who have successfully completed one or more Advanced Placement Examinations as authorized by the College Entrance Examination Board.

Students who have successfully completed courses in the Advanced Placement Program with a score of 3, 4, or 5 shall be granted credit for purposes of general education certification, graduation, advanced placement in the college's sequence courses, and for curriculum requirements.

Students desiring credit for Advanced Placement Examinations shall submit their requests to the Dean of Admissions and Records. Requests should be made prior to registration or as soon as possible during the first semester of attendance.

Classification of Students

Freshmen:

Students with fewer than 30 units of college credit.

Sophomores:

Students who have completed 30 units or more of college credit.

Other:

Students who have completed more than 60 units of college credit.

Full-time Students:

Students carrying 12 units or more.

Part-time Students:

Students carrying less than 12 units.

Continuing Students:

Students currently enrolled.

Former/Returning Students:

Students who were not enrolled during the previous semester.

New Students: Students who have never attended COS.

Registration

Registration should be completed before the beginning of each semester. In addition, students must verify their intention to attend by being present at the first meeting of each class in which they have enrolled.

STUDENTS MAY BE WITHDRAWN FROM ALL CLASSES IN WHICH THEY WERE ABSENT ON THE FIRST MEETING OF THE SEMESTER.

If unusual circumstances prevent the student from attending, the student should notify the Dean of Students' office. However, the decision to retain a student in the class is the decision of the faculty member.

NOTE:

Before scheduling a counseling appointment and admission to the College:

- (1) students must have a completed application on file;
- (2) have taken the COS Placement test;
- (3) and have the appropriate transcripts on file

prior to the first day of instruction, to be a full-time student.

Extended Day students may register in person during announced dates in the calendar section of the catalog. Counseling services from the counseling staff are available to Extended Day students by appointment.

Resident Regulations

Residency determination shall be made on the basis of a residence statement completed at the time of registration.

A "resident" is a student who has residence in the state for more than one year immediately preceding the residence determination date (EC68017).

ADMISSION-

Resident Regulations (Continued)

A student shall be required to present evidence of physical presence in California, intent to make California a home for other than a temporary purpose and if the student was classified as a non-resident in the preceding term, financial independence (T554010).

The residence determination date is that date immediately preceding the opening day of instruction of the semester (EC68023/T554002).

Physical presence within the state solely for educational purposes does not constitute establishing California residence regardless of the length of that presence (T554022).

Residents of another state are non-residents of California (T554030). The burden is on the student to demonstrate clearly both physical presence in California and intent to establish California residence (T554026).

A student who is a member of the Armed Forces of the United States stationed in this State on active duty, except those assigned for educational purposes to State-supported institutions of high education, shall be entitled to resident classification until he/she has resided in the State the minimum time necessary to become a resident (EC68075).

A student who is a natural or adopted child, stepchild (under 18 years of age), or spouse 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 classification until he/she has resided in the State the minimum time necessary to become a resident (EC68074).

<u>College Level Examination</u> <u>Program (CLEP)</u>

College of the Sequoias awards credits for the five General Examination sections of the College Level Examination Program. Six units of credit may be awarded for each examination that a student completes with a score of 500 or more.

Only students who are enrolled and matriculated at College of the Sequoias may receive credit on a College of the Sequoias transcript. The CLEP will not be applied to the General Education Certification requirement. For further information, contact the Dean of Admissions, Room 107.

Foreign Student Program

College of the Sequoias accepts a limited number of foreign students each year. In order to keep a wellbalanced representation of the various nations of the world, the number of students accepted from any one country is restricted.

Transcripts of academic records and good health verification are required to qualify for admission. To be admitted, foreign students are required to make a score of at least 500 on the Test of English as a Foreign Language (TOEFL), which is administered in their own country or at a test center in the United States. The foreign student's annual tuition fee of \$3,060 is the same as for other non-resident students. Payment of \$1,530 tuition for the first semester must be paid upon being accepted by the college. Payment should be by bank draft or money order and must be received before the Form 1-20 will be issued by the college. Tuition for subsequent semesters will be paid at the time of registration.

All foreign students are required to purchase medical insurance, the cost of which is approximately \$250 for the school year. The money to cover the insurance should be sent with the non-resident tuition.

No scholarships from the College of the Sequoias are available to foreign students. Working during the first semester is generally not allowed and students must have sufficient funds to defray expenses. Each application must be accompanied by a certified statement regarding monies which are available.

Students on an "F" or "J" type visa are required to register for a minimum of 12 units and they must maintain the same scholastic standards as other students.

The deadline for application is April 1 for the fall and October 1 for the spring semester. Requests for application forms should be sent to the Dean of Admissions.

Transcripts

Applicants must file certified transcripts of their high school record with College of the Sequoias. Applicants who have attended another college or university must, in addition, file transcripts from each college or university attended showing all attempted work. College of the Sequoias grants credit for lower division work from accredited colleges or universities.

ADMISSION

COS requires two official transcripts as follows:

- 1. The first official copy of the transcript should be mailed to the Admissions Office at COS.
- 2. An official copy and any other transcripts required should be mailed to the offices listed below IF participating in any of these programs:
 - a. Financial Aids Office
 - b. Veterans Office
 - c. Mini-Corps Office
 - d. Nursing Office

Failure to file transcripts will delay or prevent admission or graduation. Transcripts should be sent directly from the high school or college to College of the Sequoias. All transcripts become the property of the College and will not be returned.

Exception: The high school transcript requirements may be waived for:

- 1. Those who have attended college.
- 2. Those who have attained a college degree.
- 3. If 21 years or older.

Fee Assistance

The California Legislature has made funds available to low-income students who desire to attend a community college but who are prevented from doing so by the mandatory enrollment fee. The Board of Governors' Financial Assistance Program provides several ways to help lower-income students pay the enrollment fee. Students who qualify for the Board of Governors Fee Assistance Program are exempted from payment of the mandatory Health Fee (AB2336/BOG 73352.1). Please contact the Special Student Services, Room 103, for eligibility information.

Fees and Expenses

Effective with the Fall 1991 Semester, laws passed by the Stae of California mandate that a \$60 maximum per semester enrollment fee be charged of any student who registers for more than ten (10) units. An additional tuition fee of \$102 per unit will be charged to all nonresident students. Refunds of enrollment fees will be made according to an established refund policy.

Health Fee

A \$7.50 health fee is charged of all COS students enrolled in classes for units or who are repeating a class under the Community Service Option.

Material Fees

A material fee may be levied in certain courses approved by the Board of Trustees. Textbooks and school supplies average approximately \$250 per semester. These costs, however, vary according to the student's major. New and used textbooks and essential supplies may be purchased at the COS Book store.

The college also has two **optional** fees:

- 1. <u>Parking Fee:</u> A fee for those students who wish to park their vehicle on the main campus or college farm property.
- 2. <u>A Student Association Fee:</u> Students may purchase Associated Student Body Member ships. The ASB card entitles the student to particpate in or attend all activities sponsored by the ASB.

Non Resident Tuition Fees

The non-resident tuition fee for the academic year 1991-92 is \$102 per semester unit, payable each semester upon registration. Foreign students are subject to the same fees as other non-residents. Fees are applicable whether non-residents enroll for credit or non-credit.

Parking Fees

Students who park on campus must pay a parking fee. Semester parking permits may be purchased for a fee of \$20.00 per semester per vehicle for students taking 12 or more units; and \$10.00 for students taking 11 units or less. Parking permits for summer session will be \$10.00. Motorcycle and moped parking is free. Parking permits may also be purchased on a daily basis from red permit dispensers located in Lots 1, 3, 4, and the COS Farm for 50 cents (two quarters) per day. Daily permits are valid from time of purchase until 10:00 p.m

Refund Policy

Enrollment, Health and Parking fees for students who completely withdraw from college prior to the end of the SECOND WEEK OF INSTRUCTION will be as follows:

ADMISSION

Refund Policy (Continued)

Enrollment and Health Fees

- Full refunds less a \$5.00 handling fee will be mailed approximately 6 to 8 weeks <u>after</u> instruction begins.
- NO REFUNDS WILL BE GIVEN FOR CLASSES DROPPED AFTER THE FIRST TWO WEEKS OF SCHOOL.

Parking Fees

Parking refunds will be available to students withdrawing from school prior to the end of the second week of instruction. Students withdrawing from school after the second week will not receive refunds.

- -- Apply for parking refunds at the Public Safety Office in Lot 1.
- -- A \$2 service fee will be deducted from all refunds.
- -- Parking permits or remanents must be returned to the Public Safety Office before refunds will be processed.
- -- A refund check will be mailed in 6-8 weeks.
- -- Full-time students dropping units to part-time status may, <u>during the third week only</u>, file for a partial refund.
- -- Permits must be picked up as soon as purchased as a limited number will be issued.

Scholastic Regulations

The scholastic average is obtained by dividing the total number of grade points by the total number of units for which the student was registered. Grade points are assigned as follows:

> Grade A - receives 4 points per unit; Grade B - receives 3 points per unit; Grade C - receives 2 points per unit; Grade D - receives 1 point per unit; Grade F - receives 0 points per unit

Satisfactory Scholarship

Satisfactory scholarship means at least a "C" (or 2.0) average. To achieve at least a "C" (or 2.0) average, students must have a minimum of twice as many grade points as they have units attempted.

Transfer Students

Any student transferring from another college shall be subject immediately to these same scholastic regulations.

It is the responsibility of all students to compute their current grade point averages for their own guidance in determining whether their scholastic records are meeting their needs.

As an example of computing a grade point average, let us assume a student undertook the subjects shown below and earned grades as indicated:

	Units	Units		Grade	
Subjects	Attempted	Passed	Grade	Points	
PE	<u> </u>	1	С	2	<u> </u>
English	3	0	F	0	
Chem	5	5	Α	20	
Geol 1	4	4	В	12	
Math 154	3	0	F	0	
Hyg 1	0	0	W	0	
Total	16	10		34	

The grade point average equals 34 divided by 16, or 2, 12.

Explanation: Since Hygiene 1 was dropped with a "W," it does not count as units attempted. All other subjets which were carried count as units attempted, including Math 154 in which the grade was "F" and English 1 in which the grade was "F."

Scholastic Honors

Special recognition is granted to top scholars each semester. The President of the college acknowledges, on the Deans' List, those students who attain both a cumulative and a semester grade point average of 3.0 (B) or better. In addition, he also recognizes on the President's Honor List those special students who attain both a cumulative and a semester grade point average of 3.5 or better. Qualification for either honor requires enrollment in a minimum of twelve units with a letter grade.

A record of these accomplishments becomes a part of the student's permanent scholastic record. In addition to the academic recognition, the student also will receive special priority to early appointment for program planning.

Admission

Fees

Enrollment Fee

Fewer than 10 units	\$6.00 \$3.00	per unit per 1/2 unit

10 units, or more \$60.00 flat fee

(Fee waivers are available for low income students)

Refunds: Enrollment fee refunds must be requested in person at the Accounts Receivable Office. Refunds will be mailed to students within 6-8 weeks.

100% refund is given to students if they completely withdraw from classes prior to the first day of the semester or the class is cancelled by the college.

Health Service Fee

The health services fee helps support campus health services, including student accident insurance.

All students \$7.50 per semester

Fee Walvers are available for low income students

Refunds: 100% refund is given to students if they completely withdraw from classes prior to the first day of the semester or the class is cancelled by the college.

Parking Fee

Parking fees have been instituted to provide the resources needed to repair and maintain COS Parking Lots.

Students using parking lots

(Per Semester) .50 per sticker per day 11 units or less \$10.00 \$20.00 12 units or more \$10.00 Summer Session Motorcycle and Moped parking is free

Fresno State **Students** Refunds:

\$10.00 per semester Parking fee refunds must be requested at Public Safety.

Purchase of a parking permit does not guarantee a space will be available. The College District is not responsible for losses due to theft or damage.

Class Material Fees

Nominal material fees are charged for some classes. Fees vary and are noted in the Schedule of Classes.

Refunds: 100% refund is given to students if they completely withdraw from classes prior to the first day of the semester or the class is cancelled by the college.

ASB Photo ID Fee

Optional purchase of an ID card entitles you to all the privileges of Associated Student Body membership, including local merchant discounts.

Price: **Refunds:** \$15.00 per year

Through ASB Office

Non-resident Tuition

Students who have not been legal residents of California for a full year prior to registration, must pay a tuition fee in addition to the enrollment fee.

Non-resident Tuition:

\$102 per unit

Refunds:

Contact Admissions Office, Room 107













Grading Procedures

All college work is measured in terms of both quantity and quality. The measure of quantity is the unit, and the measure of quality is the grade point.

High school courses for which credit was received in high school may be repeated as remedial work in college for improvement in grade, but no college credit will be granted for such work.

For purposes of grading or transfer to other collegiate institutions, it is necessary for the student to obtain a "C" average.

"A," "B," "C," and "D" are passing grades, corresponding to excellent, good, satisfactory, and passing. "F" is failure. A grade of "I" (incomplete) will be given in cases of extenuating circumstances. The student is entitled to all grade points upon satisfactory completion of assignments within one semester.

It is understood that instructors' grades when handed in are final and not subject to change by reason of revision of judgment on the part of the instructor. Grade changes may be made by the instructor only in cases of mistakes in grade calculation.

<u>Maximum Unit Limit</u>

The normal requirement for a college schedule comprises 15-16 units of work. No student will be granted credit in excess of 21 units a semester, except in the case of a student of proven ability or one who needs additional units to complete required work for graduation. In addition, a student on academic probation shall be subject to dismissal if the student earned a cumulative grade point average of less than 2.0 in 30 units of precollegiate basic skills courses.

Prerequisites:

Prerequisites are prescribed courses covering information that is normally expected to be acquired prior to enrolling in another course. The intent of prerequisites is to ensure that any student enrolling in a course in which specific information is required will have the necessary background so that every opportunity exists for experiencing success. Therefore, any course with prerequisites presumes that subject matter will be acquired in a sequential way.

While many courses prescribe prerequisites, students must understand that any course/courses

requiring a prerequisite presupposes that the student is prepared with a set of skills to successfully engage the next level.

Students enrolling in courses without the appropriate prerequisite may find they are ill-prepared to continue their studies in that course. Prerequisites are designed to enhance success.

<u>Student Progress</u>

If satisfactory progress through College of the Sequoias' specialized support service programs (i.e., the Learning Assistance Center, Developmental Studies program, etc.) is not made during two semesters, lifegoal setting and career counseling will occur with the individual student involved. The Academic Review Board and selected faculty members will determine, for referral purposes, the most appropriate educational or community-based agency to better serve the student's need.

Probation and Dismissal

Academic Probation

A student who has attempted at least 12 cumulative semester units as shown by the official academic record at College of the Sequoias shall be placed on academic probation if the student has earned a grade point average below 2.0 in all units which were graded on the basis of the grading scale.

Unit Limitation

A student on academic probation may be limited to 15 units plus a physical education activity course or to a maximum load recommended by the student counselor.

Academic Probation Removal

A student on academic probation for a grade point deficiency shall be removed from probation automatically when the accumulated <u>GPA is 2.0 or higher.</u>

Computation Grade point Average equals: Total Grade Points Earned divided by Total Units Attempted with Letter Grade.

Academic Dismissal Procedures

A student on academic probation shall be subject to dismissal if the student earned a cumulative grade point average of less than 2.0 in all units attempted in each of the three consecutive semesters which were graded on the basis of the grading scale. In addition, no student will be granted credit in excess of 30 units for precollegiate basic skills courses, except in the case of a student who has applied for and received a waiver from the Director of Precollegiate Studies.

The term "consecutive semesters of enrollment" is defined on the basis of student enrollment. For example, a student enrolled in two fall semesters and not enrolled for the spring semester between would have two consecutive semesters of enrollment. Summer session is considered a semester of enrollment for dismissal purposes.

Students on academic probation will not be dismissed after their third semester of below satisfactory work (below 2.0 cumulate GPA) if during that third semester and every subsequent semester they maintain a 2.0 GPA until their cumulative GPA is above the probationary level.

Academically disqualified students will be so informed by letter and on their grade report and notice of their status will be entered on their permanent record. A student who has been dismissed shall not be eligible for reinstatement or readmission until one semester has elapsed after the dismissal. Students may be notified of other requirements which must be fulfilled prior to submitting a petition for readmission. A petition for a readmission is required prior to enrollment and is available from the Dean of Admissions and Records Secretary in Room 107.

Any students readmitted after disqualification remains on probation until probation removal requirements have been fulfilled. Students dismissed for the second time are not eligible to re-petition for admission until another semester of non-attendance has elapsed.

Academic Forgiveness

A student may petition the Academic Review Board to have "WF" and "F" grades disregarded from inclusion in the totals and grade points as listed on the permanent record. Prior to petitioning for the removal of a "WF" grade, condition (1) and (2) below must be met before the Academic Review Board will accept a petition for the removal of a "F" grade. (1) Fifteen or more semester units of college work with a 2.0 ("C") or better grade point average at College of the Sequoias or another accredited institution of higher learning must be completed following the semester in which the "WF" grade were earned.

(2) At least three years must have elapsed since the "F" grades were received. Instructors who originally assigned the "F" grades must give written approval for their removal. In case where the faculty members cannot be located, the final decision for removal of "F" grades will reside with the Academic Review Board.

Progress Probation

A student who has enrolled in a total of at least 12 cumulative semester units as shown by the official academic record at College of the Sequoias shall be placed on progress probation when the percentage of all units in which a student has enrolled and for which entries of "W," "I," and "NC" are recorded reaches or exceeds 50 percent.

After the second progress probation, students who satisfactorily complete 50 percent or more of units registered each semester will continue on progress probation rather than be dismissed (even if insufficient units have been completed to remove them from probation.) If students complete 49 percent or fewer of units enrolled in any semester while they continue on progress probation, they will be subject to progress dismissal.

Progress Probation Removal

A student on progress probation because of an excess of units for which entries of "W", "I", and "NC" are recorded shall be removed from probation when the percentage of units in this category <u>drops below 50</u> percent.

Computation Progress Percentage equals: Total Units with "W," "I", and "NC" divided by Total Units Enrolled.

Progress Dismissal Procedures

A student who has been placed on progress probation shall be subject to dismissal if the percentage of units in which the student has been enrolled for which entries of "W," "I," and "NC" are recorded in at

Credit by Examination

CONDITIONS AND REQUIREMENTS FOR CREDIT BY EXAMINATION

- 1. Students must be currently registered and in good standing at COS. Good standing is defined as not on probationary status.
- 2. Students must file a petition for approval to challenge a course by examination with the Admissions and Records office.
- 3. Students must furnish strong proof to the satisfaction of the instructor/department, division chair person the Vice President of Instruction that previous background, experience or training would insure a reasonable measure of success in the challenge.
- 4. If the petition is approved, the examination or series of tests shall be administered by the appropriate instructor as designated by the division chairperson. The course, with units and letter grade as signed, shall be entered on the student's record and will be reflected in the student's cumulative grade point average.
- 5. The student's academic record shall be clearly annotated to reflect that credit was earned by exami nation. A maximum of 12 units may be earned through credit by examination. (This limitation is waived in the case of registered nursing students.) Units for which credit is given pursuant to the provisions of this section shall not be counted in determining the 12 semester hours of credit in residence required for an associate degree.
- 6. Any course listed or qualified to be listed in the college catalog is available for challenge within the limits of condition "3" above.
- 7. Once the student receives approval for credit by examination, the examination must be completed within the same semester unless extenuating circumstances are shown to justify an extension of time. In the event the examination is not completed within the semester approval was obtained, an NC (no credit) grade will be assigned. If a NC grade is assigned, the student will not be allowed to challenge the same course again.
- 8. A non-refundable material and processing fee of \$15 will be assessed for each credit by examination petition.

Honors Program

The Honors Program is open to highly motivated students who wish to participate in innovative classes where dialogue, writing and the interdisciplinary nature of knowledge are stressed. The Honors in the General Education portion of the program involves courses in English, Humanities, Science and History each of which is accompanied by an Honors Colloquium that will develop and present workshops with visiting scholars and public figures. These courses will be part of the student's general education program and when combined with one of COS's academic majors, provides excellent preparation for transfer to four-year colleges and universities.

The program is open to students in all majors and is designed to provide small classes where students can develop effective communication and reasoning skills. Applications for the program can be obtained from the Honors Coordinator.

Independent Study

The purpose of an independent study is to provide an opportunity for students, under the direction of an instructor, to participate in advanced individualized studies to supplement existing courses. The independent study requires a minimum of 54 hours of academic work per unit.

Before a student may enroll......

the student must have completed ALL beginning level courses offered at the college in the subject. Only in very unusual cases may students be enrolled in independent study without completing the beginning level courses.

students must have written approval from:
 --the instructor
 --the division chairperson
 --Vice President, Instruction

Credit for Independent Study is accepted at the CSUs.

Independent Study Application Procedure

- 1. A student who has completed all beginning level courses and wishes to pursue a subject of interest may obtain an independent study application form in the Admissions Office, Room, 107. A student must be registered for the semester in which the independent study credit is being sought.
- 2. The student seeking independent study should outline his/her proposal and discuss it with an appropriate instructor. The student should then complete the independent study application form.
- 3. The student should present the completed independent study application form to the supervising instructor.
- 4. The form should then be passed from instructor to division chairperson to the Vice President, Instruction.

- 5. If approved, the form is sent from the Office of Instruction to the Admissions Office and entered on the student's schedule of classes. Registration is complete at this point. A copy of the approved form is then sent to the student by mail.
- 6. If disapproved, the reason for the disapproval is written (stated) on the form and returned to the instructor and/or division chairperson who approved the independent study. The <u>instructor</u> then notifies the student as to the reason for the denial.
- 7. Roll sheets will be distributed to the appropriate instructors by the Office of Instruction.
- 8. At the end of the semester, grade reports for independent study classes <u>MUST</u> be turned in to the Admissions Office <u>at the same time</u> <u>as are those for regularly schedule classes</u>.
- 9. If the independent study project must continue beyond the semester's end, a grade of "I" (incomplete) will be assigned to the student. An incomplete must be made up according to the stated procedure in the college catalog.
- 10. A complete roster of all independent study students will be kept by semester for a given year and filed in the Admissions Office.

Leaves of Absence

Students finding it necessary to be absent for a period of three days or more are requested to obtain and complete a leave of absence form available in the Dean of Students' Office. The reason for the absence is to be indicated on this form, as well as the dates of the proposed absence. If the leave is granted by the instructor, the student has the right to make up the work missed to the satisafaction of the instructor(s).

Student Progress

If satisfactory progress through College of the Sequoias' specialized support service programs (i.e., the Learning Assistance Center, Developmental

Studies program, etc.) is not made during two semesters, life-goal setting and career counseling will occur with the individual student involved. The Academic Review Board and selected faculty members will determine, for referral purposes, the most appropriate educational or community-based agency to better serve the student's need

Community Service Option

A student who has taken a course designated as repeatable the total number of times allowed for credit, may then opt, with the instructor's permission, to repeat certain classes under the auspices of Community Service for no credit. Students will not be allowed to enroll for the community service repetition option until the THIRD week of school. Instructor permission forms can be obtained in Administration Office from the Community Service Secretary and fees paid at the Accounts Receivable Office. Fees for students enrolled in Community Services shall be \$6 per unit plus a \$7.50 Health Fee. Since Community Service is a separate account, no funds can be transferred from credit to Community Service accounts or vice versa. If students choose to drop a class they are taking for credit and take it as a Community Service class, they must pay the additional Community Service Fee.

A course must have a minimum of 15 students enrolled in the course for credit. If there are fewer than 15 students enrolled for credit, the course will be cancelled. It may then be offered under the auspices of Community Services and the fee will be set according to the Community Service fee formula. When this occurs, the instructor may restructure the class to reduce the number of hours it meets as a means of reducing fees to students.

For a list of courses that may use the Community Service repetition option, please contact the Community Service Secretary in the Administration Office.

NO PERSON MAY ATTEND OR PARTICIPATE IN A CLASS WITHOUT BEING PROPERLY ENROLLED DUE TO INSURANCE STIPULATIONS.

Auditing Credit Classes

No class can be taken on an audit basis at College of the Sequoias.

Dropping a Class

It is the student's responsibility to drop a class in which he/she no longer wishes to be enrolled. The student can obtain the necessary form from the Admissions Office or the instructor. After completing the necessary information return the form as follows:

If	during the f	irst two week	s of school.
	Room 1.		
If	after the fir	st two weeks (school, the
Ad	lmissions O	ffice, Room 10)7.

Drop Fee

No drop fees are being charged by the college at this time.

Withdrawal from College

Any student wishing to totally withdraw from college must obtain and complete a withdrawal form and file it with the Dean of Admissions and Records for day students and the Extended Day Office in the Administration Building for night students.

Each student who withdraws from college must complete the required clearance form in order to receive a complete withdrawal.

Please refer to the section above regarding Dropping a Class for grading policies, fees and effect on the students' record relative to withdrawals.

Extenuating Circumstances

Title 5, Section 55758 defines extenuating circumstances as those which apply to the following college drop-date procedures: verified cases of accidents, illness, death in the immediate family, jury duty, family displacement, job displacement, and/or other circumstances which are justifiable in the judgement of the administrators in Student Services and Instruction, but preferably the Vice President, Student Services.

In Progress (IP)

The "IP" symbol shall be used to denote that the class extends beyond the normal end of an academic term. It indicates that work is "in progress," but that assignment of a substantive grade must await its completion. The "IP" symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate evaluative grade and unit credit shall be assigned and appear on the student's record for the term in which the course is completed. The "IP" shall not be used in calculating grade point averages.

Credit-No Credit

Student evaluation on a credit--no credit basis is limited to those courses so designated in the Schedule of Classes.

CAN (California Articulation Number)

Applicable CAN numbers are printed at the end of courses listed in the "Course Descriptions" portion of this catalog. Check for the specific course/s in which you have interest in the "Course Descriptions" to see if they are designated as "CAN" referenced

Cooperative Education Program

The Cooperative Education Program offers students an opportunity to use their work experience to earn college credit. Any student who is employed (paid or volunteer) and can meet the criteria to qualify may participate. The employer must be willing to assist the student in setting measurable learning objectives, which will be accomplished during the grading period and evaluated as to degree of accomplishment.

Each semester one to four units can be earned depending on the type of employment and the hours worked. Students must register in Leadership Training 1 if participating for the first time and Leadership Training 2 if participating for the second semester. Some division offerings may have different requirements in place of the Leadership class. Additional information may be obtained in the Cooperative Education Office which is located in Office 4 of the Administration building. Students must fill in an application in this office to register.







Student Rights and — Responsibilities







Students Rights and Responsibilities ——

Code of Student Conduct

Students are subject to charges of misconduct for any of the following acts on the college campus, an extension of the campus, or at a college-sponsored activity:

- 1. Cheating or plagiarism in connection with the academic program.
- 2. Forgery, alteration or misuse or college documents or knowingly furnishing false information to the college.
- 3. Misrepresentation of oneself or an organization as an agent of the college.
- 4. Obstruction or disruption of the college's educational, administrative or other college process.
- 5. Physical abuse or the threat of abuse to any member of the college process.
- 6. Theft of or damage to college property or property owned by a member of the college community.
- 7. Unauthorized entry into, unauthorized use or misuse of college property.
- 8. Possession of or being under the influence of alcohol or unlawful narcotics.
- 9. Possession or use of explosives or weapons.
- 10. Indecent or obscene behavior.
- 11. Abusive behavior or hazing.
- 12. Gambling.
- 13. Any other cause identified as good cause by the Education Code or other laws governing a community college.

------ Students charged with misconduct may be subject to the following penalties:

- 1. **Reprimand:** Written warning that continued misconduct will result in more serious disciplinary action.
- 2. Temporary Exclusion: Removal from class or college activity for the duration of its scheduled period.
- 3. Suspension: Exclusion from classes, activities, and/or student privileges for a specified number of days, up to a maximum of five days.
- 4. **Expulsion:** Termination of student status at this college.

------ Certain members of the campus community are authorized to impose the above penalties as follows:

- 1. Any instructor may temporarily exclude the offending student from his class for the remainder of the class session and the next class day.
- 2. Any administrator may temporarily exclude the student from any college sponsored activity for the remainder of the activity time.
- 3. The Dean of Students may impose reprimand or temporary exclusion, or may recommend suspension or expulsion.
- 4. The President of the College may impose suspension or recommend expulsion.
- 5. The Board of Trustees may impose expulsion.

Attendance

Regular class attendance not only is essential to the maintenance of satisfactory grades, but also is the means by which the college obtains financial support. So, your absences hurt you as a student and mean a loss of revenue to the college.

Each instructor has his/her own attendance policy which he/she will announce early in the semester.

Students should be aware that some courses and activities include trips and that they are responsible, first, for informing their instructors when they will be absent because of these trips and, second, for completing the work missed. If the instructor is late for class, students are obligated to wait for 10 minutes from the time the class is officially to begin before leaving.

If illness or accident make extended absence (five days or more) necessary, the office of the Dean of Students should be notified.

If a student has prior knowledge that he/she will be missing class for a day or more, he/she should go to the Dean of Students' office and obtain a leave of absence form for his instructors to sign. However, an excused leave of absence in no way relieves the student of the responsibility of completing all work to the satisfaction of the instructors involved.

Dropping a class

IT IS THE STUDENTS RESPONSIBILITY TO DROP A CLASS IN WHICH HE/SHE NO LONGER WISHES TO BE ENROLLED.

The student can obtain the necessary form from the Admissions Office or the instructor. After completing the necessary information return the form as follows:

If during the first two weeks of school. to Room 1. If after the first two weeks school, the Admissions Office, Room 107.

Eating

Eating is allowed in the Student Union and areas outside of buildings, **BUT IS NOT PERMITTED IN CLASSROOMS OR CONFERENCE ROOMS.**

Liquor and Drugs

Students and guests of students, regardless of age, may not use or be in possession or under the influence of alcohol or unauthorized drugs on either the main campus, college farm or at COS sponsored events. Violation of this regulation may result in citation and/or suspension or expulsion from college. (25608 Business and Professional Code)

Smoking

The College of the Sequoias Board of Trustees has adopted a policy which does not allow the sale of cigarettes or any other tobacco products on the college campus and prohibits smoking in any of the college buildings. COS ordinance #204, per 76033e Educational Code.

Pets

Pets are not permitted on campus without approval.

Responsibilities

Student Rights and

Messages

The college cannot relay any personal communication for such things as medical appointments, car breakdowns, lost keys, employer contacts, transportation problems, jury duty, etc.

Posting of Materials

Clearance must be obtained from the Student Activities Office for posting or distribution of any materials on campus. If there is any question of appropriateness, materials may be referred to the Dean of Students for clearance.

Materials may be posted only on bulletin boards that say "Approved for Posting" across the top. There is also a special "For Sale" bulletin board by the Student Services Office. General Advertisements (for sale, roommates or transportation needed, etc.) may be placed on cards available in Student Activities.

Students Rights and Responsibilities ——









-Student Services




Counseling Services

College of the Sequoias provides complete counseling, educational guidance, and career development services. These include degree and transfer information, registration and re-entry assistance, as well as counseling for personal or social concerns as they relate to college success. Students are encouraged to take advantage of these services offered at no cost.

The goal-purpose of counseling is to help students succeed in their studies through self-evaluation, decision-making, careful planning, and commitment. Because accurate information is essential, our counselors are dedicated to insuring that students receive current and correct information.

Counselors are available during the day either by appointment or on a walk-in basis. Evening counseling may be available on a limited basis by appointment only. It is advised that students make appointments well in advance of registration because of the high demand for counseling. Walk-in students should be aware that they may have to wait to see an available counselor.

College of the Sequoias' students wishing to make an appointment may call or stop by the Counseling Office located in the Student Services Center. The telephone number is (209) 730-3741, or 730-3715.

Student Financial Aid Programs

College of the Sequoias recognizes that many students need financial assistance to pursue their educational goals and strives to provide this assistance to as many students as possible. The College offers a coordinated program of scholarships and grants, loans and employment opportunities to assist students in meeting their college expenses.

Financial aid awards are made on the basis of demonstrated financial need. For the purpose of establishing financial need, students should submit the Student Aid Application for California (SAAC). Application materials an detailed instruction booklets will be available at California high school counseling offices and/or College of the Sequoias Financial Aid Office after December 1 of each year. For further information, please contact College of the Sequoias Special Student Services Office in Room 103.

Scholarship Program

College of the Sequoias offers numerous Scholarship Awards each year to eligible student applicants. Awards sponsored by the College, COS Foundation and many community donors, range from \$50 to \$3,000 and are offered to incoming freshman, continuing sophomores, and graduating/transferring students.

Eligibility information, applications, and a Scholarship Directory may be obtained from the Scholarship Office located in Room 105. The deadline for submitting scholarship applications is March 1.

Campus Parking

Parking facilities on campus are extremely limited. Students are encouraged to ride COS buses (Student Body Card required) or public transportation rather than drive their own vehicles because of the added safety, financial savings, and parking congestion.

Those who do bring vehicles on the main campus or college farm are required to purchase a permit and to obey PARKING regulations. Citations will be issued by the Department of Public Safety to anyone who is in violation of the college parking policy or California Vehicle Code. A brochure containing the parking policies is available at registration or at the Public Safety Office.

Students wishing to park on campus must pay a fee for a semester parking sticker. The cost is \$20 for fulltime students and \$10 for part-time students. Students not wishing to purchase semester parking stickers may purchase one-day parking passes for 50 cents from the dispensers located in Parking Lots 1, 3, 4 and at the College Farm.

Parking refunds will be available to students withdrawing from school prior to the end of the second week of instruction. Students withdrawing from school after the second week will not receive refunds.

- Apply for parking refunds at the Public Safety Office in Lot 1.
- A \$2 service fee will be deducted from all refunds.
- Parking permits or remnants must be returned to the Public Safety Office before refunds will be processed.
- A refund check will be mailed in 4-6 weeks.
- Full-time students dropping units to parttime status may, during the third week only, file for a partial refund.
- Permits must be picked up as soon as purchased as a limited number will be issued.

Purchase of a parking permit does not guarantee a space will be available. The College District is not responsible for losses due to theft or damage. All parking lot users are urged to lock their vehicles and not leave valuables within view.

Library

The COS Library, planned to meet the academic and recreational reading interests of the student body and faculty, is organized into four major areas. The main reading room houses a 75,000 volume general collection on open shelves both downstairs and on the mezzanine. This general collection is supplemented by a changing recreational reading collection of recent fiction and non-fiction. A special feature of this area is The Microbook Library of American Civilization, which contains microfiche reproductions of the several thousand classic volumes on the U.S. through the end of the 19th century. Current issues of over 400 popular magazines and scholarly journals plus a number of local, state and national newspapers, are at hand for browsing or research. The main reading area also offers a typing room and a copy machine. A quiet study room is in this area also.

Recently added to the main reading room has been an on-line public catalog for improved access to the book collection. All new books can be accessed only through these computers, but older titles can also still be found in the card catalog, which will remain on the floor a couple of years until all books can be converted into the computer database.

The Reference Room, on the second floor, houses an extensive reference collection of 12,000 volumes, including an outstanding section of legal materials. The reserved book collection is located in the Reference Room behind the circulation desk. A copy machine is nearby.

The periodicals wing houses back issues of the magazine collection and of newspapers, including a complete file of the <u>New York Times</u> since 1971, as well as the various indexes which make journal articles accessible to the reader. Six conference rooms and a microfilm reader-copier room are open off the Periodicals Room.

The fourth major area of the library is the Audio-Visual Department. A wide range of materials for use by students in the audiovisual laboratory include audio tapes, 35 mm slides, filmstrips, pamphlets, phonograph records and video tapes.

Coordinating and overseeing these areas, a staff of three and a half professional librarians, eight paraprofessionals, and a number of college student assistants work toward offering the best in library service to COS students and faculty.

Veteran's Educational Benefits

College of the Sequolas is approved for training of veterans under the provisions of State and Federal law. Students planning to attend the college and request certification for Veteran Benefits should contact the Veteran's Office to receive information regarding required forms and procedures.

College policy regarding Academic Probation applies to all students including veterans. When a veteran student receiving educational benefits is placed on Academic Probation for failure to maintain a 2.0 or "C" grade point average, he or she has one semester to improve their grades. If, after one semester of probation the GPA has not improved, then the college is required to notify the Veterans Administration that the veteran student is not making satisfactory progress. Should educational benefits be discontinued, reinstatement may occur only by the Veterans Administration. An informational brochure is available from the Special Student Services Office, Room 103.

Veteran Dependent's Educational Assistance Program

Dependent's Educational Assistance, formerly known as War Orphans' Educational Assistance, is for the purpose of providing opportunities for education to children, spouses, survivors of veterans whose deaths or permanent total disabilities were service-connected and for spouses and children of service persons missing in action or prisoners of war. Eligibility is established on a case-by-case basis. Contact the Veterans Affairs Specialist for information and assistance in establishing your claims.

Handicapped Students' Services

Services are provided to enhance accessibility to and success in all classes and activities offered at College of the Sequoias.

Services are individualized, with personal, physical, academic, and vocational needs considered. Services may include, but are not limited to academic, personal and vocational counseling; specially designated parking; mobility assistance; interpreting for the deaf; notetakers; resources for the visually impaired; specialized equipment; instruction for learning impaired students; adapted physical education and transportation. Further information may be obtained by contacting the Enabler Office, 915 S. Mooney Boulevard, Visalia, CA, 93277, or telephone (209) 730-3805. (TDD 730-3913).

Services for the Deaf and Hearing Impaired

COS employs a lead interpreter to coordinate academic support services for the hearing impaired population.

Services depend on individual need and may include any of the following: educational assessment; individual educational planning; in-class interpreters (oral, manual and total communication interpreters); specialized tutoring; vocational, academic and personal counseling; notetakers; specialized telephone equipment (TDD); and a personal FM system.

For additional information, contact the Enabler Office, 915 S. Mooney Boulevard, Visalia, CA, 93277, or telephone (209) 730-3805, (TDD 730-3913).

Student Health Center

The Health Center is located in Room 3 of the administration building. Services offered have evolved from student need and will expand gradually. Current services include blood pressure screening, T.B. skin testing, vision and hearing screening, immunizations and nursing assessments. The health center staff will assist with counseling referrals for drug and alcohol abuse, mental health, eating disorders, pregnancy, family planning and illness. Alcoholics Anonymous and Co-Dependence Support groups meet in the Health Center on a weekly basis. A rest area and some overthe-counter medications are available for students.

Health education information and materials are available in the health center on topics such as physical fitness, wellness, sexually transmitted diseases, AIDS, diet and nutrition. Arrangements for classroom presentations on health related topics may be scheduled through the health center.

A \$7.50 health fee is charged to all COS students enrolled in classes for units or the Community Service Option.

If you have any questions, contact the Health Services Coordinator at 730-3880 or 730-3881.

The Associated Students

The Associated Students of College of the Sequoias is the official student body organization. Upon payment of the student activity fee at registration, students become official members of the Associated Student Body and represented by the Student Executive Board. Upon payment of the activity fee, students are issued a student body card which entitles them to participate in activities of the organization as long as they remain in good standing. Most activities which concern the student-body as a whole are sponsored by the Associated Students.

The business of the Associated Students is carried out by the Student Executive Board. Members comprising the Student Executive Board are: Associated Student-Body President, Vice-President, Parliamentarian, Commissioners of Activities, Clubs, Records, Finance Publicity, three Freshmen Representatives, three Sophomore Representatives, and a California Student Association of Community Colleges Representative (CalSACC).

All clubs on campus are officially chartered by the Associated Student Executive Board.

Career Center

A complete career counseling program is offered to students, as well as other interested parties. The main emphasis of this program is to assist individuals in finding careers, occupations, and college majors that will contribute to a meaningful life experience. The center offers career testing, computerized career search programs, and bibliographical resources.

Re-entry Services

Mature students entering or returning to college after a considerable absence from school, will receive special support services at COS. For these students, we have set up a Re-entry Room to offer information about services on campus and in the community.

The room is staffed by volunteer faculty and reentry students. Homemakers, housewives, divorcees, military retirees, persons making mid-life career changes and other returning students are encouraged to use this service.

The Re-Entry Room is located in Room 307, Ext. 233. Smoking is not allowed in the Re-Entry Room.

Student Services

Tutorial Center

The Tutorial Center provides student tutors free of charge for students who need help with any class that is taught at COS. The center strives to teach students to be independent learners by training them in study skills such as how to take notes, improve memory and take tests. The center also has audio tapes and computer programs to teach study skills and class subjects.

The Tutorial Center is located in the northeast corner of the Instructional Media Center (IMC) and is open from 8 a.m. to 4 p.m.

Department of Public Safety

The COS Department of Public Safety functions on a 24-hour basis for the protection of school facilities, students and staff. It also sells parking permits for students wishing to park on campus who don't buy permits during registration.

Other services provided by the Department of Public Safety include:

- 1. Auto lockout assistance
- 2. Assistance with battery jumps (cables)
- 3. Traffic accident reports for insurance purposes
- 4. Escort service from building to parking areas
- 5. Patrol of buildings and parking areas to aid in crime prevention
- 6. Campus lost and found
- 7. Investigations of theft and other crimes
- 8. Security functions at COS-sponsored special events
- 9. Emergency medical aid services

Students should remember to always lock their car. Do your part to prevent crime on campus by reporting all suspicious activity to the Department of Public Safety 24 hours a day.

The Department of Public Safety is located in Parking Lot 1 off Meadow Lane next to the bus transportation building. Call 730-3726.

Clubs and Organizations

Students are encouraged to become active in one or more of the various clubs at COS to enrich and roundout their college experience. A list of clubs, their advisors and meeting times is listed on various bulletin boards on campus. Further information is available in the Student Activities Office on the north side of the gym.

Any group which wants to be organized at COS must be chartered through the Associated Student Body. Forms are obtained in the Student Activities Office.

"An Open activity hour" is scheduled every Tuesday and Thursday at 12 noon for activities. It is set up so groups can plan meetings, social activities, and assemblies when everyone is free to attend. Only a few classes are schedule for these hours.

Student Services Center

The Student Services Center provides a wide variety of services to all students and acts as a general information center. The counseling staff is located in this building.

Child Care

COS Children's Learning Center provides child care for children ages two through five during the school year. Children are enrolled on a first come, first serve basis with students' children given first priority.

Each Class has a licensed teacher who is aided by college students enrolled in COS' Early Childhood Education classes. Fees are depending on the amount of classes the children's parent is taking.

The Children's Learning Center is located at 3101 S. Linwood Avenue, near the COS farm. Call the Learning Center for fee schedule and referral to other child care services.

Bus Transportation

College of the Sequoias offers free bus transportation to outlying areas in the district. Student drivers bring the buses in each morning and reverse the route home each night. The two routes served by buses are 1) Corcoran-Hanford and 2) Exeter-Farmersville-Tulare.

To ride a bus, students must have a student body card or bus I.D. card.

Bookstore

The bookstore carries all textbooks required in COS classes, as well as other books, stationery and art supplies, gifts and other items.

Textbooks are grouped by division, course name and instructor. Students may purchase their books as soon as they register, but may want to wait until after their first class session if they are not sure they will keep the class or if they do not know whether the instructor requires all the books on his list.

Full refunds will be given during the first three weeks of the semester if the books are unmarked. Be sure to keep your receipt. NO REFUNDS WILL BE GIVEN WITHOUT A DROP SLIP OR CASH REGISTER RECEIPT.

The Bookstore will buy back used books during the last three days of finals week if the books are being used the following semester and are needed.

Bookstore hours are 7:45 a.m. to 4 p.m., Monday through Friday, and 6 p.m. to 7 p.m., Monday through Thursday. (For the first three weeks of each semester, the Bookstore is open 6 p.m. to 8 p.m.)

Student Activities

COS recognizes its responsibility for students' emotional and social growth. The college, therefore, offers a variety of co-curricular programs, including student government, clubs, assembly programs, community service projects and social activities. If there is interest in joining a club or organization or starting a club or organization, see the Associate Student Body Advisor.

Audio Visual

Audio visual services for students are available in the Audio Visual Department located on the ground floor of the instructional Media Center (IMC) behind the library.

Students may check out and use audio visual material in the audio visual laboratory and preview rooms. A wide range of materials are available, including audio tapes, 35mm slides, filmstrips, pamphlets, phonograph records and video tapes. Computer terminals are also located in the A.V. lab for students use.

The department is open Monday through Friday, 7:45 a.m. to 4:15 p.m.

Extended Opportunity Programs and Services (EOPS)

Extended Opportunity Programs and services is a state funded program that provides grants, tutorial services, supportive social services, student advisors, and recruitment to those students who are identified as being financially or educationally disadvantaged. A special summer college program is offered to entering freshmen. Students who feel uncomfortable starting college or are having problems trying to make it through college should visit the EOP&S Office for information and assistance. The office is located in Room 103.

Social Services/Housing

The Social Services and Housing Program is a component of the Extended Opportunity Programs and Services (EOPS). Student advising and free typing services are available to EOPS eligible students through this office.

The Social Services Program provides information and referrals on: Social Security, Legal Aid, Food Stamps, Medical Card, Voter Registration, Family Planning, Tulare County Health Department Services, Emergency food and clothing, and additional sustenance programs. Current lists of doctors and dentists accepting new patients, child care centers in Tulare County, licensed child care homes in the Visalia area, and private attorneys are also available for student use. A Textbook Loan Program is available to needy students who meet program criteria. The Housing Program provides students with assistance in locating apartments, rooms, houses, and roommates. A daily list of available housing is posted for student use.

The Social Services and Housing Program is located in Room 109. There are no dormitories on campus.

Student Insurance Coverage

All students are covered by an accident insurance policy that provides coverage for accidents occurring during school-sponsored, supervised curricular and co-curricular activities. The policy coordinates with students' personal insurance so duplicate benefits are not paid. "STUDENTS INVOLVED IN AN ACCIDENT MUST FILL OUT AN ACCIDENT FORM AND CLAIM IN THE STUDENT ACTIVITIES OFFICE."

Students may also buy voluntary health insurance through COS during registration. Coverage may be extended to include spouse and children. Although the plan is a voluntary one, the college recommends that every student be covered by this policy or an equivalent one. Extreme financial hardship can result when a major illness or accident occurs and there is no insurance protection. More information is available in the Activities Office.

Food Services--Student Union

The Student Union welcomes all new and returning students and offers a variety of food services. The Student Union is open morning, noon and evening for the convenience of students.

Service includes breakfast from 7 to 10 a.m. and lunch from 10 a.m. to 9 p.m. The grill closes at 2 p.m. but other items may be purchased until 9 p.m.

Also a snack cart is available by the "300" building from 7:15 a.m. to 9 p.m., Monday through Thursday, and 8 a.m. to 3 p.m. on Fridays.

Features include a salad bar, assorted sandwiches, hot and cold drinks, desserts and homemade bakery items. Soup is offered all the time. For variety there are also daily specials. The Student Union features video games and is a convenient gathering spot on campus.





General Education Philosophy for the Associate Degree

General education breadth requirements emphasize democratic concepts based on the value and dignity of each individual, thus helping students prepare to undertake the responsibilities of citizenship and to participate knowledgeably in the varied experiences of life.

We believe in the vital importance of major requirements to educate students in the area of specialization and in breadth requirements to help them develop the capacity for independent judgment.

We also believe that the general education breadth requirements are of vital importance in the personal, social, and vocational/professional life of each student.

1 In <u>personal development</u>, breadth requirements help students develop self-awareness, thus increasing understanding of personal potentialities and limitations.

In social relationships and in the life of society, breadth requirements help the students communicate more effectively, promote better understanding of the communications of others and help develop awareness of societal relationships.

• In **professional development** the breadth requirements help the student become a more effective person in the workplace through more effective communication with fellow workers and through a better understanding of the relationship between the job at hand and the larger world into which it fits.

General education breath requirements will help the student by:

- -- Exposing them to the major disciplines of accumulated knowledge,
- -- stimulating curiosity about our surroundings,
- -- evaluating alternatives so that personal values can be formed,

-- developing effective communication skills,

- -- gaining a sense of self worth,
- -- learning to make rational decisions based on the utilization of problem-solving techniques,
- -- questioning simple solutions of complex problems; if appropriate, seeking alternatives.

Requirements for Graduation

The Associate of Arts or Associate of Science degree will be awarded to all students upon the satisfactory completion of the following requirements:

- □ A minimum of 60 units of college work, at least 15 of which must be taken in residence at the College of the Sequoias, with a "C" (2.0) average. To achieve a grade point average of "C," a student must earn twice as many grade points as units attempted.
- Satisfactory completion of two units of Physical Education general activities courses. Students 21 years of age and over, or students who turn 21 during matriculation, are exempt from this requirement.
- Two units of Personal and Community Hygiene. This requirement is satisfied by completion of Hygiene 1* or Hygiene 7*.
- English 251, Business 184, and English 1 with a grade of "C" or higher. Courses taken to satisfy this requirement may be counted in satisfaction of the general education requirement.
- Eighteen units of general education including at least three (3) units from each of the following areas:

<u> Area A - Natural Sciences</u>

Agriculture 3 Ornamental Horticulture 101 Nutrition 18 Or any science class numbered 1-299

Area B - Social and Behavioral Science

History 17 or 18 Political Science 5 or Social Science 276

*Registered Nursing students are exempt from this requirement.

<u>Area C - Humanities</u>

English 253 or One course of <u>at least three (3)</u>

<u>units</u> in

--art

--theatre arts

--foreign language

--literature

--music

--philosophy or Sign Language numbered 1-299

Area D1 - English Composition

Business 184 English 251 or English 1, with a grade of "C" or higher

<u> Area D2 - Critical Thinking</u>

Journalism 7/Political Science 7, English 2, Speech 1, Speech 4, Philosophy 25, Agriculture 201, Business 119, Business 20, Computer 5, Computer 6, Computer 7, or Any Math course numbered 1-299

Area E - Understanding and Self Development

Business 182, Business 188, Interior Design 121, Consumer/Family Studies 186, Consumer/Family Studies 80, Child Development 39 Psychology 39, Psychology 250, or Any course numbered 1-299 listed in Areas A,B, C, D1, or D2.

The Associate of Arts degree requires a major consisting of at least <u>20 units of satisfactory</u> <u>work</u>, only four of which can be work experience, in specific subject areas or approved related fields. □ The Associate of Science degree requires a major consisting of <u>at least 30 units of satis-factory work</u>, only four of which can be work experience, in specific subject areas or approved related fields. Registered nursing students must earn a grade of at least "C" in all nursing and concomitant nursing courses.

Competency Certification

State law requires that the candidate for the Associate of Arts or Associate of Science degree be certified as competent in the areas of writing, reading, and computation. College of the Sequoias students may establish competency by one of the following:

Writing

- -- Eligibility for English 1 based on the COS Placement Test.
- -- English 1, 251, or Business 184 with a grade of "C" or higher
- -- Pass approved alternate competency test after one semester of English 1 or 251 (without receiving a "C" or better), or
- -- Transfer to COS with a grade of "C" or higher in a course equivalent to English 1, English 251, or Business 184

Reading

- -- Score of 25 or higher on COS Reading Placement Test
- -- Score at equivalent level or higher on test given by Reading Department
- -- Pass English 1 with a "C" or higher
- -- Pass English 265a or 265b with a grade of "C" or higher

<u>Computation</u>

- -- High school algebra 1 and geometry (one each) with a grade of "C" or higher
- -- Math 210 and 215; and Math 220 at COS with a grade of "C" or higher
- -- Math 230 or higher math with a grade of "C" or better
- -- Pass Math competency exam with a successful score (at least 70 percent)

A.A./A.S. Degree Guidelines

Catalog Rights

As long as a student maintains "continuous attendance," he or she may elect to fulfill graduation requirements of the catalog in effect at the time attendance begins at COS or of the catalog in effect during the semester of graduation.

"Continuous attendance" is defined as being officially enrolled at least one semester during a calendar year on a continuing basis without a break of more than one semester--excluding the summer semester. A student is considered to have been in attendance even if he or she registered and totally withdrew from school during that semester as long as the official transcript so indicates.

The following exceptions may apply:

- If a student has a break in attendance of more than one semester but has completed 15 or more units at COS, he/she may fulfill the graduation requirements in effect during semester of first attendance.
- 2. If a student has completed 15 or more units at another institution and enrolls immediately at COS without a break in attendance, he/she may graduate under requirement in effect during semester of first attendance at the previous institution.

Graduation Application

An Application to Graduate must be filed by each student who wishes to receive an Associate Degree. Applications are available in the Admissions and Counseling Offices.

The completed application must be returned to the Admissions Office prior to the deadlines published in the college calendar which can be found in the Schedule of Classes, College Catalog, and Student Bulletin.

Multiple Degrees

A student may obtain:

- 1. Any and all degrees for which requirements have been met.
- 2. An A.A. degree in a given major and then, at a later date (one or more semesters), earn an A.S. degree within that same major.
- 3. An A.A. degree and an A.S. degree during the same semester in different majors provided all requirements for each major and the degree have been met.
 - a. Only one diploma will be provided by COS at no cost to the student. A student may purchase additional (2nd or more if earned) diplomas at a cost to be determined by COS. Notations of all degrees and majors will automatically appear on transcripts. A receipt from the cashier for an additional diploma must accompany the Application for Graduation.

Starting with the 1991-92 catalog year, courses numbered 300 and above will not be associate degree applicable regardless of your establishing catalog rights prior to the 1991-92 catalog year.

Catalog Rights

All California State University bound transfer students must fulfill degree requirements from one catalog, not the most favorable requirements from two or more catalogs. As long as a student maintains continuous attendance, *he or she may elect, for purposes of fulfilling graduation requirements, one of the following:

1) The catalog in effect at the time a student begins attending a California community college such as College of the Sequoias.

2) The catalog in effect at the time a student begins attending the transfer campus.

3) The catalog in effect at the time a student graduates from the transfer campus.

All students planning to transfer to the University of California or a private university must fulfill degree requirements from one catalog, not the most favorable requirements from two or more catalogs. These transfer students typically use the catalog in effect at the time they begin continuous attendance.*

*Continuous attendance is defined as being officially enrolled in at least one semester or two quarters during a calendar year regardless of the number of units completed. Also, a student is considered to have been in attendance even if he or she registered and totally withdrew from school during that semester/ quarter as long as the official transcript so indicates.

Transfer planning

Students planning to transfer have a wide variety of options. The California State University with 20 campuses; the University of California with 9 campuses; and over 60 private, independent colleges in California provide a wide range of academic programs, physical and academic environments, and social climates. College of the Sequoias offers the equivalent of the first two years of these four year college and university programs. Students wishing to pursue any of these educational alternatives should meet with a counselor as early as possible to discuss their educational study plan. Careful planning will help you avoid mistakes which could prolong your academic pursuits.

Successful transfer planning requires the following steps:

- → Selecting a career goal
 - Selecting an appropriate major to meet your goal
- → Selecting an appropriate college or university
- Planning and completing an appropriate transfer program
- → Completing the application process

All colleges and universities have specific admissions requirements and may have special course and unit requirements, as well as minimum grade averages that must be met prior to transfer. Once students identify their major and the college or university to which they wish to transfer they should consult the respective catalog of the college or university for specific requirements. Catalogs for the California State University campuses, the University of California campuses, and selected private, independent colleges are available for use in the Transfer Center and the Career Center. Students are encouraged to purchase their own catalog by writing directly to the college or university.

Four year colleges and universities require students to complete specific general education requirements as well as major requirements for the baccalaureate degree. <u>Students should work toward completing both</u> general education and lower division major requirements prior to transfer. The Counseling Office and the Transfer Center maintain articulation agreements with course equivalencies and curriculum major sheets for selected majors and colleges. COS counselors will assist with interpreting the curriculum major sheets, articulation agreements and catalog statements and requirements.

In accordance with Executive Order No. 167 from the Chancellor's Office of the California State Universities and Colleges, College of the Sequoias has developed a list of courses which are baccalaureate level. Courses that are numbered 1-199 are accepted by the California State Universities and most private, independent colleges. Courses numbered 1-99 are accepted by the University of California; however, students should consult pages 52-57 for specific limitations. COS courses transfer to four year colleges and universities in terms of specific or elective credit depending upon the school and major selected.

All students must assume the responsibility for complying with regulations and instructions set forth in catalogs for selecting the courses which will permit them to meet their educational objectives, and for satisfying prerequisites for any programs or courses which they plan to take. College requirements and articulation agreements are continually changing; the following pages represent an attempt to provide some current and pertinent information for transfer students.

THE CALIFORNIA STATE UNIVERSITY

Initial Application filing period

.

Cum	mer Qı	Igriar	. Eat	FILOFI	11.90
					1-20
Fall	Nover	nber -	1-30		
Sector Contraction	54.577 - 14.676 (GC) (GC)		200 CONTRACTOR		
Wint	r Quar	er: J	une	-30	
Sprir	ig: Au	gust	1-31		
		74. H di			
		9.000.000			

All applicants are encouraged to file within the initial application filing period. Applications to impacted majors must be filed within the first month of the filing period. Each campus accepts applications until capacities are reached. If applying after the initial filing period, consult the COS Transfer Center for current information. Applications for admissions are available in the Counseling Office and the Transfer Center.

Eligibility for Transfer

You will meet minimum qualifications for admissions as a transfer student 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 any of the following standards:

- 1. You will meet the freshman* admission requirements in effect for the term to which you are applying.
- 2. You were eligible as a freshman* at the time of high school graduation and have been in continuous attendance in an accredited college since high school** graduation.
- 3. You were eligible as a freshman at the time of high school graduation except for the subject requirements, have made up the missing subject, and have been in continuous attendance in an accredited college since high school graduation.
- 4. You have completed at least 56 transferable semester (84 quarter) units and have made up any missing subject requirements (see "Making Up Missing College Preparatory Subjects" section). Nonresidents must have a 2.4 grade point average or better.
 - Refer to the CSU application for the freshman eligibility index and subject requirements.
 - Continuous attendance is defined by CSU as attendance in at least one course for at least one semester or two quarters in any calendar year.

Making Up Missing College Preparatory Subject Requirements

If you did not complete the subject requirements in high school, you may make up missing subjects by any of the following ways. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study.

- 1. Complete appropriate courses with a "C" or better in adult school or high school summer sessions.
- 2. Complete appropriate college courses with a "C": or better.
- 3. Earn acceptable scores on specified examinations.
- 4. If you have 56 or more semester (84 quarter) units you may complete one of the following alternatives:

<u>1987 or earlier high school graduates:</u> complete the CSU general education requirements in communication in the English language (at least 9 semester units) and mathematics (usually 3 semester units), with a "C" or better in each course;

<u>1988 and later high school graduates:</u> complete a minimum of 30 semester (45 quarter) units, with a "C" or better in each course, to be chosen from courses in English, arts and humanities, social science, science, and mathematics of at least equivalent level to courses that meet general education or transfer curriculum requirements. You must complete all CSU general education requirements in communication in the English language (at least 9 semester units) and mathematics (usually 3 semester units) as part of the 30 unit requirement.

For this section, transferable courses are those numbered 1-199. A maximum of 70 units of these designated transferable courses may be transferred to the CSU system.

General Education Requirements for California State University

All campuses of the CSU system require a minimum of 48 units of general education. Thirty-nine of these units may be taken at community colleges. Beginning with Fall 1991, students may fulfill the lower division general education requirements prior to transfer by completing one of the following three options:

- 1. The **California State University General Education Certification** which will fulfill the lower division breadth/general education requirements for all CSU campuses.
- 2. The **Intersegmental General Education Transfer Curriculum** which will fulfill the lower division breadth/general education requirements for all CSU and UC campuses.
- 3. The specific lower division breadth/general education requirements of the campus to which they intend to transfer.

The California State University General Education Certification and Intersegmental General Education Transfer Curriculum patterns are listed below. Students should consult a COS Counselor to determine which option is best suited for their educational objective.

California State University General Education Certification

For Transfer to CSU

Students may complete the following pattern of courses within the stated rules to be eligible to receive General Education Certification prior to transfer. This certification requires all CSU campuses to consider all lower division breadth/general education requirements fulfilled.

Area A: Oral and written communication and critical thinking. Choose one course from each section (9 units minimum).

A1	Oral Communication	Speech 1, 4
A2	Written Communication	English 1, 1H
A3	Critical Thinking	English 2, Philosophy 25

All courses in Area A must be completed with a grade of "C" or better.

Area B: Natural Sciences and Mathematics (9 units minimum). Choose one course from each group. One laboratory science is required. (Labs Underlined)

GROUP 1 PHYSICAL SCIENCE

Astronomy 10, Geography 1 Chemistry <u>1</u>, <u>2</u>, <u>20</u>, <u>21</u> Geology <u>1</u>, 12, Meteorology 1 Physical Science <u>12</u>, <u>12H</u> Physics <u>5</u>, <u>6</u>, <u>7</u>, <u>20</u>, <u>21</u>

GROUP 2

LIFE SCIENCES

Biology <u>1</u>, <u>2</u>, <u>20</u>, <u>20H</u>, <u>21</u>, <u>22</u>, Biology 25, <u>31</u>, <u>40</u>

GROUP 3 MATHEMATICS

Math 21, 45, 61, 62, 70, 75, 76, 77, Math 80, 81, 154, Business 20, 119

Course in GROUP 3 must be completed with a grade of "C" or better.

California State University General Education Certification

For Transfer to CSU

Arts, Literature, Philosophy and Foreign Language (9 units minimum). Area C: Courses must be chosen from at least three of the eight groups. One course from GROUP 6 is required. GROUP 1: Art 1, 2, 3, #4, #5, 5H, #6, #7, 8, 9 GROUP 2: Cinema Arts 31, 32 GROUP 3: Theatre Arts 1. 2. 3 GROUP 4: Music 1, 10, 34a-d, 36a-d, 52a-d, 74a-d, 172a-d GROUP 5: Humanities 1H GROUP 6: English 4, 10, 15, 16, 18, 19, 30, 31, 32, 44, 45, 46, Spanish 12 GROUP 7: Philosophy 10, 11 GROUP 8: Spanish 1, 2, 3, 4, 22, 23, French 1, 2, 3, 4, SLS 101, 102 # Art 4 & 5 are the same as Anthropology 4 & 5 and Art 6 & 7 are the same as Child & Family Studies 6 & 7.

Area D: Historical, Political, and Economic Institutions (9 units minimum). The nine units must include 3 units each from groups 1, 2, and 3.

- **GROUP 1** American Institutions: Political Science 5, 5H
- **GROUP 2** American institutions: History 17, 18, 18H
- **GROUP 3:** Ag Management 1, History 4, 5, 19, 20, 23, 31, Economics 1, 2, Anthropolgy 2, Geography 2, 3

AREA E: Understanding & Self-Development (3 units minimum).

Psychology 1, 10, 133, Sociology 1, #126, Nutr/Food 18, Child & Family Studies 80, #126, English 114a, 114b

Sociology 126 is the same as Child & Family Studies 126.

American Institutions Requirement

All CSU graduates must complete coursework in U.S. History, Constitution, and American Ideals as required by Section 40404 of Title 5 of the Administrative Code. This requirement may be fulfilled at COS for 19 of the 20 CSU campuses by completing Political Science 5 or 5H and either History 17, 18 or 18H as part of the General Education Certification. California State University, Chico is the only campus that will not allow these courses to meet both the general education requirement and the American Institutions requirement. See a COS counselor for details.

Intersegmental General Education Transfer Curriculum

For Transfer to CSU and UC

Students may complete the following pattern of courses within the stated rules to be eligible to receive the Intersegmental General Education Transfer Curriculum (IGETC) Certification. This certification requires all CSU and UC campuses to consider all lower division breadth/general education requirements fulfilled. All courses must be completed with a grade of "C" or better.

NOTE:

Final approval of courses included in the IGETC pattern was pending at time of publication. Check with Counseling Office for current status.

AREA 1. ENGLISH COMMUNICATION

CSU - 3 courses required, one from each group below UC - 2 courses required, one each from group A and B

Group A: <u>English Composition</u> 1 course, 3 semester units

English 1, 1H

Group B: <u>Critical Thinking - English Composition</u> 1 course, 3 semester units

English 2, Philosophy 25**

Group C: <u>Oral Communication</u> - (CSU REQUIREMENT ONLY) 1 course, 3 semester units

Speech 1, 4

AREA 2. MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING

1 course, minimum 3 semester units

Math 21*, 61*, 62*, 70*, 75*, 76*, 77, 80, 81

Intersegmental General Education Transfer Curriculum

For Transfer to CSU and UC

AREA 3. ARTS AND HUMANITIES

<u>Art</u>

Minimum 3 courses, 9 semester units. Select at least one course each from Groups A and B below.

Group A:

Art 1, 2, 3, #4, #5, Music 4*, 5*, 6, 7, 10, Thtr. Art 1

#Art 4 & 5 are the same as Anthropology 4 & 5

Group B: <u>Humanities</u>

English 4, 10, 15, 16, 18, 19, 30, 31, 32, 44, 45, 46 History 4, 5, 17+, 18+*, 18H+*, 19, 20, 21, 23, 31 Humanities 1H Philosophy 10, 11, 12, 13, 14, 25** Spanish 1, 2++*, 3++*, 4++, 12 French 1, 2++, 3++, 4++

AREA 4. SOCIAL AND BEHAVIORAL SCIENCES

Select at least three courses from at least two disciplines. Minimum 9 semester units.

Anthropology 10, Economics 1, 2, Geography 2, Political Science 5+, 7#, Sociology 1, 2, Psychology 1, 5, 10, 34, 39#

Political Science 7 is the same as Journal 7# Psychology 39 is the same as Child Development 39

AREA 5. PHYSICAL AND BIOLOGICAL SCIENCES

Minimum 2 courses, 7-9 semester units. Select at least one course each from Groups A and B, at least one course must include a laboratory. (Labs Underlined)

Group A:

Physical Sciences:

Chemistry <u>1</u>*, <u>2</u>*, <u>5</u>, <u>12</u>*, <u>13</u>, <u>20</u>*, <u>21</u>* Physics <u>5</u>*, <u>6</u>*, <u>7</u>*, <u>20</u>*, <u>21</u>* Astronomy 10, Geography 1, Geology 1, Meteorology 1, Physical Science <u>12</u>*

Group B:

Biological Sciences:

Biology 1, 2, 20*, 20H*, 21*, 22*, 25, 30, 31, 40

Language Other Than English (UC Requirement Only)

This requirement may be fulfilled by the completion of two years of a foreign language in high school with a grade of "C" or better, or equivalent proficiency demonstrated by performance on tests, such as earning a minimum score of 550 on an appropriate College Board Achievement Test in a foreign language. If you are not able to demonstrate proficiency as indicated above, you can fulfill this requirement by completing one of the following courses:

Spanish 2++*, 3++*, 4++ French 2++, 3++, 4++

CSU Graduation Requirement in U.S. History, Constitution, and American Ideals ————

This is not part of the IGETC; however, this requirement may be completed prior to transfer. Select one course each from Groups 1 and 2.

Group 1. Political Science 5+, 5H

Group 2. History 17+, 18+, 18H+

- Indicates that number of transfer units may be limited by UC. Please consult the "University of California Transfer Course List", located on page 60 for transfer unit limitations.
- If course is used to meet the CSU Graduation Requirement in U.S. History, Constitution, and American Ideas it can NOT also be used to meet IGETC Requirements.
- ++ If course is used to meet the UC Language Other Than English Requirement it can NOT also be used to meet IGETC Requirements.
- •• Indicates that the course is listed in more than one area, but shall not be certified in more than one area.

University of California

Priority Application filing period

Fall Quarter: November 1-30 Winter Quarter: July 1-31 Spring Quarter: October 1-31

UC Berkeley: Fall Semester: November 1-30 Spring Semester: July 1-31 All applicants are encouraged to file within the priority application filing period. If applying after the priority filing period, consult the COS Transfer Center for current information. Applications for admissions are available in the Counseling Office and the Trnasfer Center.

Eligibility For Transfer

- 1. If you were eligible for admission to the University when you graduated from high school--meaning you satisfied the Subject, Scholarship, and Examination Requirements--you are eligible to transfer if you have a "C" (2.0) average in your transferable college coursework.
- 2. If you met the Scholarship Requirement, but did not satisfy the Subject Requirement, you must take college courses in the subjects you are missing to be eligible to transfer. You will need to earn a grade of "C" or better in each of these required courses and an overall "C" (2.0) average in all transferable college coursework. If you completed less than 12 quarter or semester units of transferable college coursework, you must also satisfy the Examination Requirement.
- 3. If you were not eligible for admission to the University when you graduated from high school because you did not meet the Scholarship Requirement, or you did not meet the Scholarship Requirement and did not complete all the required "a-f" subjects, you must:
 - a. Complete 84 quarter units or 56 semester units of transferable college credit with a grade point average of at least 2.4, and satisfy either (b) or (c) as follows.
 - b. Take college courses on the subject you are lacking and earn a grade of "C" or better in each one. (The University will waive up to two units of the required high school course-work except in mathematics and English.)
 - c. Complete one college course in mathematics, one in English, and one selected from either U.S. history, laboratory science, or foreign language. You must earn a grade of "C" or better in each course. All courses, with the exception of the required mathematics course, must be transferable. The course in mathematics must assume a proficiency level equivalent to three years of high school mathematics (i.e., elementary algebra, advanced algebra, and geometry). The course may be trigonometry or a more advanced course in mathematics or statistics for which advanced algebra is a prerequisite.

If the number of applicants exceeds the spaces available for a particular campus or major-as is often the case-the campus uses criteria that exceed the minimum requirements to select students. Therefore, meeting the minimum requirements is not enough to gain admission to many UC campuses and programs.

Clearing High-School Subjects with College Courses

UC SUBJECT REQUIREMNT ("A" THROUGH "F")	HIGH SCHOOL REQUIREMENT	HOW TO CLEAR A-F DEFICIENCY OR OMISSION (All courses must be completed with a grade of "C" or better.)
(a) History	One Year	A one-year deficiency may be cleared with a transferable college course of three-quarter (or two-semester) units in U.S. History, Civics, Government OR acceptable courses or exams designated by colleges as meeting the State Requirement of American History and Institu- tions.
(b) English	Four Years	To clear each year of deficiency in the first, second or third year of high-school English, one four-quarter (three -semester) unit college course in composition, literature or speech. These courses need not be transferable.
		To clear a deficiency in the fourth year of high- school English, one transferable four-quarter (three semester) unit college course in composi- tion, literature or speech. The literature and speech courses must have substantial composi- tion.
(c) Mathematics	Three years required, four recommended.**	To clear each year of deficiency, one course in elementary or intermediate algebra, plane or solid geometry. To clear entire deficiency, complete a three-quarter (two semester) unit course in trigonometry or an advanced math- ematics course for which trigonometry is prereq- uisite.
(d) Laboratory Science	One year	A one-year deficiency may be cleared with one course in a natural (Physical or biological) science with at least 30 hours of laboratory (not demonstration or activity).
(e) Forelgn Language	Two years	To clear entire deficiency, any course or courses held by the college or university to be equivalent to two years of high-school language (excluding conversation).
(f) College Preparatory Electives.**	Four years	Any one course beyond those listed above as clearing requirements (a), (b), (c), (d), or (e) – or a course having as a prerequisite courses equivalent to (c), (d), and (e) or the equivalent of two high school years in a second language. In addition, any transferable course of four or more quarter units in history, social science or visual and performing arts.

General Education Requirements for University of California ———

Each school and college at every UC campus has its own breadth/ general education requirements. Beginning with Fall 1991, students may fulfill the lower division breadth/general education requirements at any UC campus by completing one of the following two options:

- 1. The **Intersegmental General Education Transfer Curriculum** which will fulfill the lower division breadth/general education requirements for all UC and CSU campuses.
- 2. The specific lower division breadth/general education requirements of the campus they intend to transfer.

The Intersegmental General Education Transfer Curriculum is listed on page 55. Students should consult a COS Counselor to determine which option is best suited for their educational objective.

University of California Transfer Course List

College of the Sequoias courses that are acceptable by the University of California including all unit limitations are as follows:

ACCOUNTING

1, 2

ADMINISTRATION OF JUSTICE

11*, 12*, 13, 14

*11 and 12 combined: maximum credit allowed, one course

AGRICULTURE

3, 4

AGRICULTURE MANAGEMENT

ANIMAL SCIENCE

1, 2a-b*, 22

*2a and 2b combined: maximum credit allowed, one course

ANTHROPOLOGY

4, 5, 10, 11

ARCHITECTURE

10, 11, 20, 21, 40*

*Limit 40 with Engineering courses (maximum 16 units)

<u>ART</u>

1, 2, 3, 4, 5**, 5H**, 6+, 7+, 8*, 9*, 10a-d*, 11a-d+, 12a-b*, 13a-d*, 15+, 16+, 17a-b+, 18a-b+

*Any or all of these courses combined: maximum credit allowed, 16 units +Any or all of these courses combined: maximum

credit allowed, 12 units

**5 and 5H combined: maximum credit allowed, one course

Note: Art 4 & 5 same as Anthro 4 & 5; Art 6 & 7 same as CFS 6 & 7

<u>ASTRONOMY</u>

BIOLOGY

10

1, 2, 20+, 20H+, 21*, 22*, 25, 30, 31 40

+No credit for Bio 20/20H if taken after Bio 1; Bio 20 and Bio 20H combined: maximum credit allowed, one course

*No credit for Bio 21 if taken after Bio 2; no credit for Bio 22 if taken after Bio 1

University of California Transfer Course List

BUSINESS

18, 20*

* Bus 20 and Math 21 combined: maximum credit allowed, one course

CHEMISTRY

1*, 2*, 5, 12, 13, 20*, 21+

*Chem 1, 2, & 20 combined: maximum credit allowed, 2 courses +No credit for Chem 21 if taken after 12

CHILD DEVELOPMENT

39*, 42

See Child & Family Studies () for limitation Note: Child Development 39 same as Psychology 39

CHILD & FAMILY STUDIES

6+, 7+, 36*, 80*

Note: Child & Family Studies 6 & 7 same as Art 6 & 7

+See Art 6 & 7 for limitation *CFS/Psych/Nursing 36, CFS 80 & Child Dev/ Psych 39 combined: maximum credit allowed, 2 courses

CINEMA ARTS

31, 32

COMPUTER

5, 6, 7

DANCE

8a-d, 10a-d, 12a-d, 40a-d*

See Physical Education () for limitation

ECONOMICS

1, 2

ENGINEERING

1*, 2*, 3*, 4*, 7*

*Any or all of these courses combined with Architecture 40, maximum credit allowed, 16 units

<u>ENGLISH</u>

1*, 1H*, 2, 4, 10, 15, 16, 18, 19, 30, 31, 32, 44, 45, 46

*1 and 1H combined: maximum credit allowed, one course

FASHION 76

FRENCH 1, 2, 3, 4

GEOGRAPHY 1, 2, 3

GEOLOGY 1, 12

HISTORY 4, 5, 17, 18*, 18H*, 19, 20, 21, 23, 31

*18 and 18H combined: maximum credit allowed, one course

HUMANITIES 1H

<u>HYGIENE</u>

1*, 3, 7*

*1 and 7 combined with Sports Medicine 60: maximum credit allowed, one course

INDEPENDENT STUDY

(See COS Counselor)

INTER-COLLEGIATE ATHLETICS la thru 16d*

* See Physical Education (*) for limitation

JOURNALISM 1.7

MATHEMATICS

15, 17, 21*, 45, 61+, 62+, 70#, 75+, 76+, 77, 80, 81

*21 and Bus 20 combined: maximum credit allowed, one course

+61, 62, 75, 76 combined: maximum credit allowed, 2 courses

#70 maximum credit allowed, 4 units

University of California Transfer Course List

METEOROLOGY

1

MUSIC

1++, 4++, 5++, 6, 7, 8a-b*, 10, 20*, 21*, 22a-d*, 23a-d*, 30a-b*, 32a-d*, 34a-d*, 36a-d*, 40a-d*, 50a-d*, 52a-d*, 54a-d*, 60a-d*, 61a-d*, 62a-d*, 74a-d*, 75a-d+, 76a-d+, 90a-d*, 91a-d*, 92a-d*, 94a-d*, 97a-d#

*Any or all courses combined: maximum credit allowed, 12 units

+Limit with (*) P.E. courses: maximum credit allowed, 4 units

#Limit with (+) Th. Art courses: maximum credit allowed, 12 units

++1, 4 & 5 combined: no credit for 1 if taken after 4 & 5

NURSING

36*

Note: Nursing 36 same as CFS/Psych 36 *See Child & Family Studies (CFS) 36 for limitation

NUTRITION

18

ORNAMENTAL HORTICULTURE

2*, 3*, 7

*2 and 3 combined: maximum credit allowed, one course

PHILOSOPHY

10, 11, 12, 13, 14, 25

PHOTOGRAPHY

1, 2a-c

PHYSICAL EDUCATION

1a thru 14d*, 15a-d, 18a thru 35b*, 36, 41a thru 95d*

*Any or all of these courses combined with Music 75a-d or 76a-d: maximum credit allowed, 4 units

PHYSICAL SCIENCE

12*, 12H*

*12 and 12H combined: maximum credit allowed, one course

No credit for 12 or 12H if taken after a college course in Astronomy, Geology or Physics

PHYSICS

5*, 6*, 7*, 20*, 21*

20* and 5 combined: deduct 2 units from 20 20 and 6 combined: deduct 1 unit from 20 21 and 7 combined: deduct 2 units from 21 21 and 5 combined: deduct 1 unit from 21

PLANT SCIENCE

1, 12

POLITICAL SCIENCE 5*, 5H*, 7

* 5 and 5H combined: maximum credit allowed, one course Note: Political Science 7 same as Journal 7

PSYCHOLOGY

1, 5, 10, 34, 36*, 39*

* See Child & Family Studies (*) for limitations Note: Psych 36 same as CFS 36 and Nursing 36

SOCIOLOGY

1, 2

SPANISH

1, 2, 3, 4, 22*, 23*

*22 is equivalent to 2: maximum credit allowed, one course; 23 is equivalent to 3: maximum credit allowed, one course

SPEECH ARTS

1, 3, 4

University of California Transfer Course List

SPORTS MEDICINE

40*, 60+, 70*, 71*, 72*, 73*

*40, 70, 71, 72, 73 combined: maximum credit allowed, one course +60 and Hygiene 1 & 7 combined: max. credit

allowed, one course

<u>THEATRE ARTS</u>

1, 2, 3, 4, 5, 11a-d+, 13a-b+, 14a-b+, 15a-b+, 16a-b+, 18a-b+, 19a-d+, 20a-d+, 21a-d+

+Any or all of these courses combined: maximum credit allowed, 12 units

Private Independent Colleges

College of the Sequoias is accredited by the Western Association of Schools and Colleges. Therefore, COS courses numbered 1-199 will usually be accepted as transfer credit at universities and colleges throughout the country. Students who plan to transfer to a private or out-of-state college should consult the specific catalog with the assistance of a COS counselor to determine lower division requirements necessary for transfer.

California Articulation Number System

The California Articulation Number (CAN) System identifies some of the transferable, lower division preparatory courses commonly required by four year colleges and universities. Lists of courses for campuses participating in the CAN system are available in the Counseling Office and the Transfer Center. The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN course on another participating campus. Example: CAN CHEM 2 at College of the Sequoias will be accepted for CAN CHEM 2 at any other participating campus. California Articulation Numbers are listed parenthetically after each course description in this catalog. See a counselor for assistance.









Certificate Policy

The College of the Sequoias will issue Certificates to those students who satisfactorily complete the requirements and who demonstrate proficiency and competency in a prescribed vocational training program. The certificate is widely recognized and accepted by employers as verification of job preparedness and skill achievement.

Students receiving certificates from College of the Sequoias have the confidence and pride in knowing their certificate represents the highest standards in occupational proficiency and educational excellence

College of the Sequoias issues the following certificates

Certificate of Completion

- 1. Certificates of completion are issued to those students completing a prescribed vocational study program consisting of from 12 to 42 semester units with a "C" or better grade in each of the required certificate classes.
- 2. Students must complete at least 50% of the units required for the certificate in classes offered through COS.
- 3. The requirements for each certificate are on the following pages in the Certificate Brochure. <u>Substitutions or waiver of required courses based upon work or</u> <u>other experience should be approved by the Program Coordinator and/or the</u> <u>Vocational Dean.</u>

Certificate of Participation

- 1. Certificates of Participation are issued to those students completing a class or series of classes requiring less than 12 semester units of instruction with a "C" or better grade in each certificate class.
- 2. Students must complete at least 50% of the required units for the certificate in classes offered through COS.
- 3. The requirements for each certificate are on the following pages and the Certificate Brochure. <u>Substitutions or waiver of required courses based upon</u> work or other experience should be approved by the Program Coordinator and/ or the Vocational Dean.

Most certificate courses can be applied toward an AA or AS degree. Students wishing to obtain a certificate and a degree should see their counselor for general education or other requirements beyond those required for their certificate.

Units

5

5

5

3

3

2

3

3

3

3

4

<u>3</u>

27-31

Accounting

67

Accounting

Business Division

Without accounting, no economic decision could be made, no business planning or decision making could take place, no companies could operate. Accountants gather, record, report and interpret financial information. The Accounting program is designed to prepare students to become bookkeepers or junior accountants.

Career opportunities are available in government, civil service, business and industry, private accounting firms and self employment. There are also accounting specialties such as tax accounting, cost accounting budget accounting and data processing.

Required Courses

Course Title

Course <u>Number</u>

Business 201 Business 202 Business 282 Business 184 Business 295 Or Business 268 Business 174 Or Business 182 Or Business 188 Computer 5 Or Computer 130 Computer 131

General Vocational Accounting General Vocational Accounting	
Individual Income Tax	
Business Communications	· · .
Business Arithmetic	
Electronic Calculating	e e t
Marketing	
Introduction to Business	
Human Relations in Busines	5
Computer Information System	IS
Introduction to Computers	•
Beginning DOS	· · · · ·

Total Units Needed for Certificate

Elective Courses

None

Ag Management

Agriculture Division

Courses in agriculture management prepare students for a variety of occupations in the agriculture industry. Ag economics, sales and management classes give students valuable skills necessary to manage the whole spectrum of a diverse agriculture industry. Courses in agriculture computers and related fields in Dairy Science, Horticulture and the Animal-Crop Sciences areas supplement the production side of management and give students a broad foundation of agriculture skills and competencies.

Required Courses

Course Title

Course Number

Ag Mgt 1 Ag Mgt 102 Ag Mgt 103 Ag Mgt 104 Ag Mgt 105 Ag 193 Ag 201

Introduction to Ag Economics Agriculture Sales Introduction to Ag Management Farm Accounting Computers in Agriculture Work Experience **Agriculture Mathematics** Required Electives (see below)

<u>Units</u>

3

3

3 3

3

3

3

<u>9</u>

30

Total Units Needed for Certificate

Elective Courses (Choose nine (9) units)

Ag 4	1	Soils	н.	3
Dairy 103		Commercial Dairy Management		3
ОН 101		Introduction to Horticulture		3
Dairy 101		Dairy Elements		3
Ag 299		Agriculture Topics		1
Ag Mech 101		Introduction to Ag Mechanics		2
Pint Sci 1		Introduction to Plant Sciences		3
An Sci 1		Introduction to Animal Sciences		3

3

3

3

3

3

3

3

3 3

3

3

Ag Mechanics

Agriculture Division

Course

Agriculture is highly mechanized today. No farming industry can exist without machinery. Mechanized Agriculture students develop skills and knowledge using tools and equipment on the modern COS Farm. Farm buildings are constructed and repaired using both wood and metal fabrication techniques. Students also study irrigation principles, land surveying and laser leveling equipment.

 \mathbf{F} arming industries are in need of mechanized agriculture experts. Jobs are available on farms, in sales and service of farm equipment, equipment manufacture, ag mechanics and welding.

Required Courses

<u>Number</u>	<u>Course Title</u>	<u>Units</u>
Ag Mech 102 a-d	Farm Equipment Construction	3
Ag Mech 103	Farm Machinery	3
Ag Mech 107	Farm Surveying	3
Ag Mech 109	Small Engines	2
Ag Mech 101	Basic Shop	2
Ag Mech 103	Farm Power	3
Ag Mech 105a-b	Farm Structures	3
Ag Mech 106a-b	Farm Welding	2
Ag 193-196	Ag Coop/Work Experience	1-4
Required Electives (see l		<u>6</u>
Total Unite Needed	or Cartificata	90-91

Total Units Needed for Certificate

Elective Courses (Choose six (6) units)

Plnt Sci 102 Plnt Sci 103 Ag 201 An Sci 1 OH 101 OH 108 Ag Mgt 1 Ag Mgt 105 a-b Ag 4 Dairy 101 Ag Mech 108 Row Crops Cereal & Oil Crops Ag Mathematics Introduction to Animal Science Basic OH Skills Landscape Construction Introduction to Ag Econ Computers in Agriculture Soils Elements of Dairy Irrigation

Agricultural Science

Agriculture Division

A Certificate in Agriculture is designed to give a student the opportunity to develop a variety of skills in Animal Science, Horse Production, Horticulture, Ag Business, Mechanics, Agriculture Education and Crop Science. The general Ag certificate can be used for those individuals who are undecided about which area of agriculture to pursue and wish to get a broad base of education for a career in the agriculture industry.

Required Courses

Course <u>Number</u>

Course Title

Units

Ag Mgt 105 a-b	Computers in Ag	· 3
Ag 193	Work Experience	3
An Sci 1	Introduction to Animal Science	3
Dairy 1	Dairy Elements	3
OH 101	Ornamental Horticulture	3
Plnt Sci 1	Introduction to Plant Science	3
Ag Mech 101	Introduction to Ag Mechanics	2
Required Electives		
(see below)		10

Total Units Needed for Certificate

30

Elective Courses (choose ten (10) units)

	3
Crops	3
ales	3
al Nutrition	3
	3
	.3
•	3
ultural Entomology	3
n n n s	ales nal Nutrition t Propagation n Machinery

Animal Science and Industry

Agriculture Division

Plant Sci 1

Ag Mech 104

 \mathbf{T} he Animal Science program is designed for students whose major interest is in working with beef cattle, sheep or swine species. Students work on the college's 160-acre Farm and with the various animal units, combining practical experience with technical knowledge in the various livestock enterprises.

Most COS Animal Science majors return to livestock operations in the area for employment or go to work for one of the agriculture businesses supporting the livestock industry such as feedlots, meat packing and processing plants, animal nutrition, lending institutions and agriculture education.

Required Courses

Course		
<u>Number</u>	<u>Course Title</u>	<u>Units</u>
Ag Sci 1	Introduction to Animal Science	3
An Sci 103	Animal Nutrition	3
An Sci 104	Diseases and Sanitation	3
An Sci 107	Introduction to Meat Science	3
An Sci 110	Swine Production and Management	3
An Sci 111	Beef Production and Management	3
An Sci 112	Sheep Production and Management	3
Ag 193-196	Work Experience	1-4
Required Electives		
(choose from below)		6
Total Units Needed	for Certificate	28-31
Elective Courses	s (choose six (6) units)	
Ag 201	Agricultural Mathematics	3
Ag Mgt 105a-b	Agricultural Computers	3
Ag Mgt 104	Farm Records	3
An Sci 105a-c	Preparing Livestock for Shows and Sales	2
An Sci 2a-b	Livestock Selection and Sales Evaluation	2
An Sci 108a-d	Meat Selection and Evaluation	3
La l'alla de l'	- · · · · · · · · · ·	-

Introduction to Plant Science

Farm Machinery

3

3

Animal Science

Industry and Technology Division

The certificate program is designed to provide the student with the skills necessary for employment in architectural or building design firms or related construction drafting firms.

Required Courses

Course Title

Units

30

Course <u>Number</u>

Architectural Environment Design	3
	3
Introduction to Graphics & Perspective	3
Basic Graphics	3
Freehand Drawing	3
Light Wood Frame Construction	3
Computer Analysis Building Energy Use	2
Materials of Construction	2
	8
	Basic Graphics Freehand Drawing Light Wood Frame Construction Computer Analysis Building Energy Use

Total Units Needed for Certificate

Recommended Electives (choose eight (8) units)

Arch 40	Strength of Materials	3
Arch 121a-c	Perspective Alternatives	3-9
Arch 141	Stress Analysis	3
Arch 190a-d	Supervised Practice	1-3
Arch 291, 292, 293	Independent Study	1-1-1
Drafting 110	Introduction to Computer Assisted Drafting	4
Drafting 111	Computer Assisted Drafting	4
Bldg Trades 104	Carpentry	3
Bldg Trades 105	Carpentry	3
Bldg Trades 114	Basic Residential Construction	4
Bldg Trades 115	Basic Residential Construction	4
Math 75	Calculus with Analytic Geometry	5
Math 76	Calculus with Analytic Geometry	5
Physics 5	Physics for Scientists	4
Physics 6	Physics for Scientists	4
-	-	

Automotive Technology

Industry and Technology Division

This program offers pre-employment vocational training for the student desiring fulltime work in automotive service and repair. The two-year course of study includes lecture, demonstration, laboratory instruction, all emphasizing fundamental mechanical principles. Instructors fully qualified both by shop experience as master mechanics and by training as teachers conduct all technical classes in both lecture-demonstration and laboratory sections. An advisory committee composed of employers and working mechanics assist the college in maintaining a program geared to current needs of the trade.

A student may complete a certificate in one year by following a prescribed course of study. Thirty units completed with a grade "C" or better is the minimum requirement to earn this certificate. Units earned in extended day classes can be applied along with day time classes to achieve this goal.

Required Courses

Course		and the state of the	
Number	<u>Course Title</u>	l i i i i i i i i i i i i i i i i i i i	<u> Inits</u>
Auto 100	Bench Work and Safety		1
Auto 101	Automotive Electricity	2	4
Auto 102	Fuel and Cooling Systems		3
Auto 103			4
Auto 104	Auto Power Train Analysis	a da anti-anti-anti-anti-anti-anti-anti-anti-	3
Auto 105	Brakes and Alignment		3
Auto 106	Automatic Transmissions		4
Auto 107	Advanced Auto Transmissions		3
Auto 108	Automotive Engine Tune Up	ž, se s sta	5
Auto 109	Air Conditioning/Accessories		3
Auto 113	Computerized Engine Control	dje serej st	<u>3</u>
	r U		-
Total Units Need	led for Certificate		36
		1	
		는 21가 24만 한 34만 	
Recommende	<u>d Electives</u>		
		Sec. Sec.	
Auto 190a-c	Supervised Dreation		1-3
	Supervised Practice		
Welding 161	Oxy-Acetylene Welding		4
Acct 287	Accounting for Service Busines		. 3
I&T 351	Industry and Technology Math		2

These electives may be substituted for required courses. Permission to substitute must be obtained from the program coordinator.
Course

Industry and Technology Division

An educational program has been established for the Building Trades as an integral part of a regular two year community college curricula. An option system is used to meet the needs of individual students. The basic emphasis of the Building Trades, Construction Option is carpentry.

Technical classroom, as well as manipulative (hands on) instruction is given on nomenclature, wood and composite building materials, fasteners, building layout, roof framing, stair construction, rough carpentry and finish carpentry. In addition, instruction is given in the areas of plumbing, wiring, insulation, roofing, dry-wall, painting and drawing for the construction trades.

Manipulative instruction is taught by building a complete residence and appropriate small projects. Safety glasses and approved clothing are used during manipulative classes.

Required Courses

<u>Number</u>	<u>Course Title</u>	<u>Unit</u>
Bld Tr 200	Drawing for Building Construction	2
Bld Tr 201	Drawing for Building Construction	2
Bld Tr 104	Carpentry (Residential Construction)	3
Bld Tr 105	Carpentry (Residential Construction)	3
Bld Tr 108	Advanced Carpentry/Roof Framing	3
Bld Tr 109	Advanced Carpentry	3
Bld Tr 114	Carpentry/Project House Construction	4
Bld Tr 115	Carpentry/Project House Construction	4
Bld Tr 118	Carpentry/Project House Construction	4
Bld Tr 119	Carpentry/Project House Construction	4

Total Units Needed for Certificate

Elective Courses

Bld Tr 130	Blueprint Reading/Residential Construction	3
Bld Tr 134	Residential Construction Estimating	3
Bld Tr 138	Contractors License Law	3
Bld Tr 150	Elementary Cabinetmaking	4
Bld Tr 160	Cabinet Making/Mill Work Lab	3
I&T 270	Residential Wiring	3
Bld Tr 190a-d	Supervised Practice	1-3

32

These electives may be substituted for required courses. Permission to substitute must be obtained from the program coordinator.

Building Trades, Mill Cabinet Option

Industry and Technology Division

An educational program has been established for the Building Trades as an integral part of a regular two year community college curricula. An option system is used to meet the needs of individual students. The basic emphasis of the Building Trades, Mill Cabinet Program is residential cabinetry and finish millwork.

Technical classroom as well as manipulative (hands on) instruction is given on the safety, maintenance and use of hand tools, power tools and machinery; woodworking joinery and milling procedures; woods, plywoods and hardboard; cabinet hardware, and cabinet design, layout, construction, and installation.

In addition, instruction is given in fundamental and advanced drafting techniques, estimating and contracting procedures.

Required Courses

Course **Course Title** Units Number Bld Tr 200 Drawing for Building Construction 2 Drawing for Building Construction Bld Tr 201 2 **Carpentry (Residential Construction)** 3 Bld Tr 104 **Carpentry (Residential Construction)** 3 Bld Tr 105 Bld Tr 114 Carpentry/Project House Construction 4 Carpentry/Project House Construction Bld Tr 115 4 Bld Tr 150 **Elementary Cabinetmaking** 4 Bld Tr 151 **Cabinet Making and Millwork** 4 Cabinet Making/Millwork Lab Bld Tr 160 3 Cabinet Making/Millwork Lab Bld Tr 161 3 Introduction to Computer Assisted Cabinet 4 Drafting 130

Total Units Needed for Certificate

36

Elective Courses

Bld Tr 138	Contractors License Law	3
Bld Tr 162	Cabinet Making/Lec/Lab Summer	3
Bld Tr 130	Blueprint Reading/Residential Construction	3
Bld Tr 190a-d	Supervised Practice 1-3	3
I&T 270	Residential Wiring	3

These electives may be substituted for required courses. Permission to substitute must be obtained from the program coordinator.

Child Development

Child Development

Consumer/Family Studies Division

Increased attention is being focused on the educational needs and potential of the young child. Students trained in child development will have a direct impact on those children. As more mothers return to work and need day care, there is a growing need for trained men and women who have a sound understanding of the social, emotional, physical, cognitive and creative needs of the young child.

Employment opportunities include jobs in day care, homecare, co-op schools and aides in public schools. The child development program provides the 12 units required by the state of California for private day care centers and the 24 units required by the state for a children's center permit, as well as degree, transfer and certificate classes.

Required Courses

Course <u>Number</u>

Course Title

Units

2

3

3 3

3

3

7

24

Chld Dev 134 Chld Dev 39 Chld Dev 140 Chld Dev 141 Chld Dev 42 Chld Dev 148 Required Electives choose from below)	Child Abuse Child Development Principles in ECE Practice in ECE Child/Family/Society Child Health & Safety	
choose from below)		

Total Units Needed for Certificate

Elective Courses (choose seven (7) units)

Nutr/Food 112	Child Nutrition	3
Chld Dev 151	School Age Child Care	3
Chld Dev 135	Music Experience in ECE	1
Chld Dev 136	Children's Literature	1
Chld Dev 137	Science Experiences in ECE	1
Chld Dev 149	Creative Activities	2
Chld Dev 150	Creative Activities	2
Chld Dev 143	Administration in ECE	3
Chld Dev 144	Administration in ECE	3
Chld Dev 145	Parenting	3
Chld Dev 146	Exceptional Child	3
Chld Dev 147	Infant/Toddler	3
Chld Dev 190a-c	Supervised Practice	1-3
Chld Dev 156	Family Day Care	· 1
Chld Dev 157	Family Day Care	1
Chld Dev 199a-d	Topics in Child Development	1/1/1/1

Child Development, Special Education Option

Consumer/Family Studies Division

The number of children with special needs in preschools and elementary school is increasing, some in special education programs and some mainstreamed into regular educational and child care programs. Adults working with these children as aides and assistants need training and experience in child development and specific courses related to the special needs child. Employment opportunities include public elementary schools, Headstart and state preschools, private centers and homes.

Required Courses

Course		•
<u>Number</u>	<u>Course Title</u>	<u>Units</u>
Chld Dev 39	Child Development	3
Chld Dev 140	Principles in ECE	3
Chld Dev 141	Practice in ECE	3
Chld Dev 42	Child/Family/Society	3
Chld Dev 146	Exceptional Child	3
Hygiene 3	First Aid/C.P.R.	2
Chld Dev 194	Cooperative Work Experience	. 2
Required Electives	· ·	· · ·
(choose from below)		3
Total Units Neede	d for Certificate	22
Elective Course	es (choose three (3) units)	
Chld Dev 145	Parenting	3
Chld Dev 148	Health & Safety	3

Color Image

Consumer/Family Studies Division

Colors can affect mood, appearance...a person's very image of him or herself. The color/image program has been developed to provide background in color/image selection for planning, evaluating and coordinating wardrobes. Color analysis is an exciting new field and consultants are in great demand.

However, in addition to people interested in a color/image consulting career, there are many whose employment and personal lives will be enhanced by color/image knowledge, such as fashion buyers, hair dressers, cosmetic consultants, interior designers, retail clerks, personal shoppers, home economics educators, 4-H advisors and scout leaders.

Required Courses

Course <u>Number</u>

Course Title

Fash 167 2 **Applied Color Theory** Fash 168 Advanced Color Theory 2 Fash 175 3 Fashion Image Fash 174a-b Fashion Illustration 2 Fash 179 2 **Fashion Analysis** Fash 260 Career Dressing 1 Fundamentals of Public Speaking Speech 1 3 **Required Electives** (choose from below) 6

Units

21

3 3 3

Total Units Needed for Certificate

Elective Courses (choose six (6) units)

Fash 76	Textiles	
Fash 117a-b	Makeup	
Fash 178	Visual Merchandising	

Computers

Business Division

The computer has become the constant feature found in almost any business or classroom today. Computers are becoming integrated into all aspects of the work environment as the tool of choice. For example, computers are today used in business, sports, math, drafting, statistics, journalism, communications, and psychology. Computers do three basic jobs commonly found in the office — word processing, database management, and spreadsheets. The Computer Certificate will give the individual a foundation in computer languages as well as the various software applications. The certificate holder will be prepared to use the microcomputer effectively in a business environment.

Required Courses

Course Title

Course <u>Number</u>

Computer 5	Computer Information Systems	3
Or Computer 130	Introduction to Computers	4
Computer 6	BASIC Programming	3
Computer 7	COBOL Programming	4
Or Computer 133	DataBase Processing	4
Computer 131	Beginning DOS	3
Computer 132	Advanced DOS	2
Business 182	Introduction to Business	· 3
Or Business 188	Human Relations in Business	3
Business 184	Business Communications	3
Computer 134	Telecommunications	2
Computer 135	Desktop Publishing for Business	4
Or Computer 136	WP with WordPerfect	3
Or Computer 137	WP with WordStar	3
Business 201	General Vocational Accounting	5
Or Business 202	General Vocational Accounting	5
Or Business 1	Principles of Accounting	4
		1 A 1

Total Units Needed for Certificate

30-33

<u>Units</u>

Elective Courses

None

Computers

Consumer/Family Studies

Consumer/Family Studies Division

This program gives a general overview of the various Consumer/Family Studies areas. It enables men and women to develop skills that improve the quality of life and helps them prepare to function effectively in changing family, community and work environments. Designed to give a practical training in every day living, the program is also a starting point for those who want to become home economists. Students who continue studies at a four-year college can become home economists, a wide-ranging field with career opportunities in teaching, dietetics, fashion merchandising and design, consumer affairs, family counseling, adult and child services.

Required Courses

Number	Course Title	<u>Units</u>
Int Des 121		4
Or 122	Interior design	3
Nutr/Food 101	Foods	3
Nutr/Food 18	Nutrition	3
Fash 175	Fashion Image	3
Fashion 161a-b	5	
Or 162a-b	Clothing Construction	3
CFS 186	Personal Management	3
Required Electives		
(choose from below)		3
Total Units Needed	for Certificate	21

Elective Courses (choose three (3) units)

CFS 80 Lifespan Development 3 Chld Dev 39 **Child Development** 3

Cosmetology

See Vocational Certificate Booklet or the Office of Vocational Education for details.

Dairy Science

Agriculture Division

CAURCA

The San Joaquin Valley is the leading area in the state for the production and processing of milk and dairy products. A large number of career opportunities are available for students who attend COS and major in Dairy Science. The school operates the only community college dairy in the state and has an outstanding dairy curriculum. The program also offers the only Dairy Manufacturing curriculum on the community college level and works very closely with local facilities to train students in dairy manufacturing.

Required Courses

<u>Number</u>	<u>Course Title</u>	<u>Units</u>
D		•
Dairy 101 🧳	Dairy Elements	3
Dairy 102	Milk Production	3
Dairy 103	Commercial Dairy Herd Mgmt	3
Dairy 104	Breeding and Selection	3
Ag Mech 103	Farm Power	3
Dairy 5a-d	Dairy Cattle Judging & Showing	a - 1 - 1
Ag 193-194	Work Experience	1-4
Ag 201	Agriculture Mathematics	3
Required Electives		
(see below)		e politico de 11 - 1
Total Units Neede	d for Certificate	31-34

Elective Courses (choose eleven (11) units)

Dairy 106	Intro to Dairy Mfg		3
Dairy 107	Dairy Skills	•	1
Dairy 108	Dairy Nutrition	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	3
Ag Mgt 105a-b	Computers in Ag		3
Ag Mech 101	Intro to Ag Mechanics	· · ·	2

Drafting Technology

Industry and Technology Division

There are several degree and certificate programs available in Drafting Technology. Each certificate program is designed to prepare students to enter into specific fields of drafting or a variety of other related fields. The degree programs are designed for students wishing to obtain an Associate of Arts degree as well as prepare for certain drafting or related jobs.

Required Courses

Course <u>Number</u>

Course Title

<u>Unit</u>

3

4

3

4 4

3

3

3

3

3

2

3

3

1

1

1

1-3

	•
Drafting 100	Applied Drawing
Drafting 101	Machine Drawing
Drafting 102	Descriptive Geometry
Drafting 110	Introduction to Computer Assist Draft
Drafting 111	Computer Assisted Drafting
Drafting 120	Introduction to Computer Assisted Illustration
Drafting 121	Computer Assist Illustration
Drafting 130	Introduction Computer Assisted Cabinet
Drafting 160	Graphic Design
Drafting 161	Graphic Design
Drafting 190a-d	Supervised Practice
Drafting 200	Beginning Mechanical Drawing
Drafting 201	Civil Engineering Drafting
Drafting 202	Civil Engineering Design
Drafting 291	Independent Study
Drafting 292	Independent Study
Drafting 293	Independent Study

Total Units Needed for Certificate

45-47

Elective Courses

None

Units

29

3

3

3

3

2

3

1

Electronics Technology

Industry and Technology Division

This program offers pre-employment vocational training for students desiring employment in the electronics industry. The two-year course of study combining lecture and laboratory instruction includes theory and analysis of basic electronics, electronic circuits. Use of test equipment and trouble-shooting techniques are emphasized in ALL classes.

In accordance with previous preparation, personal objectives and ability, the student may prepare either for more advanced study at a four-year college or for immediate employment in communications, consumer products servicing, microcomputers, and manufacturing.

Required Courses

Course Title

Course Number

Elect 101	D. C. Circuits	1. Anti-April 5 . A
Elect 102	A. C. Circuits	5
Elect 103	Active Devices	4
Elect 104	Communication Circuits	5 S
Elect 110	Digital	3
Elect 111	Microprocessors	3
Elect 112	Microprocessor Applications	4

Total Units Needed for Certificate

Elective Courses

Elect 105	
Elect 106	
Elect 113	
l&T 270	
&T 272	
l&T 27 3	
&T 351	
Computer 6	
Elect 190a-d	

OP-AMPS Design and Fabrication PC Troubleshooting Residential Wiring Electrical Wiring, Industrial Electronic Motor Control Industry and Technology Math Basic Programming Supervised Practice

These electives may be substituted for required courses. Permission to substitute must be obtained from the program coordinator.

Environmental Control Technology (HVAC)

Industry and Technology Division

This training program is planned to prepare a person who possesses appropriate aptitudes for entry into employment in the several areas of air conditioning. It is expected that the student will develop job entry knowledge and skills necessary for the maintenance and repair of air conditioning - refrigeration - cooling - heating equipment. From this base, a person should also be able to do well in related occupations. Students should have a broad understanding of the principles of science and mathematics.

A student may complete a certificate in one year by following a prescribed course of study. Thirty units completed with a grade "C" or better is the minimum requirement to earn this certificate. Units earned in extended day classes can be applied along with day time classes to achieve this goal. This certificate does not require a student to take course work outside the Environmental Control Technology department.

Required Courses

Course		
Number	Course Description	<u>Units</u>
ECT 181	Basic Air Conditioning	8
ECT 182	Adv Air Cond/Refrig Coml/Dom	12
ECT 279	Basic Refrig/Heating Theory	4
I&T 142	Air Conditioning Sheet Metal	3
I&T 143	Adv Air Cond Sheet Metal	<u>3</u>
Total Units Need	ed for Certificate	30
Elective Cours	es des	i ·
ECT 190a-d	Supervised Practice	1-3
ECT 260	Basic Refrigeration	2
ECT 261	Adv Air Cond & Refrigeration	2
ECT 262	Heating Systems & Controls	2
ECT 263	Commercial Refrigeration	. 2
ECT 300	Intro Indust Ammonia Refrig	3
Drafting 200	Beginning Mechanical Drawing	2
Auto 109	Air Conditioning/Accessories	3
Business 287	Accounting for Small Business	3
Business 297	Personal Finance	. 3
Welding 161	Oxy-Acetylene	4

These electives may be substituted for required courses. Permission to substitute must be obtained from the program coordinator.

Fashion Design

Consumer/Family Studies Division

The glamour world of fashion design is a growing industry. California is #2 in the nation when it comes to the clothing industry. Millions of people are involved in fashion production through designing, manufacturing, advertising or marketing. The fashion design option will teach you how to design and create for this growing industry or in your own business. Career opportunities include fashion designer, fashion illustrator, pattern drafter, pattern grader, samplemaker, production manager, shipping manager, manufacturer's sales representative, dressmaker and alterationist.

Required Courses

<u>Number</u>	Course Description	<u>Units</u>
Fash 76	Textiles	3
Fash 175	Fashion Image	3
Fash 162	Pattern Design	3
Fash 163	Advanced Pattern Design	· 3
Fash 174a-b	Fashion Illustration	2-2
Fash 177	Introduction to Fashion Merchandising	3
Speech 1	Fundamentals of Public Speaking	3
Fash 160a-b	Clothing Construction	3
Required Electives		
(see below)		3
Total Units Needed	for Cartificate	28

Elective Courses (choose three (3) units)

Fash 161a-b	Tailoring		3
Fash 112a-b	Costuming		3

Fashion Merchandising

Consumer/Family Studies Division

Fashion is big business! Millions of people are involved in fashion production either through direct manufacture or through advertising, marketing or design. Americans spend more than \$82 billion on clothing each year. Over 30,000 new jobs have been created in the California apparel industry in a ten year period, and this trend is expected to continue.

Career opportunities are unlimited: retail sales, buyer or manager; fashion coordinator, fashion consultant, display specialist or public relations; teacher; plus related careers such as fashion journalism, advertising and manufacturer's sales representative.

Required Courses

Course Number

Fash 76 Fash 167 Fash 175 Fash 174a-b **Fash 177** Fash 178 Fash 179 Fash 260 Computer 130 CFS 194, 195 or 196

<u>Course Title</u>	<u>Units</u>
Textiles	3
Applied Color Theory	2
Fashion Image	3
Fashion Illustration	2
Introduction to Fashion Merchandising	3
Visual Merchandising and Promotion	3
Fashion Analysis	. 2
Career Dressing	1
Introduction to Personal Computers	4
Work Experience	2-4

Total Units Needed for Certificate

25-27

Elective Courses

None

Fire Technician

Special Programs Division

The Fire Technician program is usually taken by persons already working in a fire agency who want to advance in their position. Students learn fire fighting skills, fundamentals of how and why fires start, fire chemistry and physics, practical skills and leadership, command and control techniques at the scene of an emergency, fire protection laws, etc.

The program prepares students to work in fire agencies in fire fighting as well as management positions.

Required Courses

Course <u>Number</u>	Course Title		<u>Units</u>
FS 70 Required Electives	Basic Firefighter 1 - Academy		9
(see below)		,	12
Total Units Needed	for Certificate		21

Elective Courses (Choose twelve (12) units from this list)

Fire Tec 240	S.F.M. Non-Ambulance EMT-1 FS	4
Fire Tec 153	Fire Investigation	3
Fire Tec 154	Fund of Fire Service Operations	. 3
Fire Tec 156	Fire Service Hydraulic	3
- Fire Tec 163	Fire Protection Equip/System	3
Fire Tec 171	Tech of Fire Serv Instr	1
Fire Tec 172	Tech of Fire Serv Instr	2

Floral Technology

Agriculture Division

The sale of cut flowers, house plants and dried and silk flowers has increased rapidly in recent years. This is because of increases in the population and family income, but also because of an increased interest in the use of flowers. This certificate is designed for those seeking occupations in the floral industry as a florist.

Required Courses

Course		
Number	Course Title	<u>Units</u>
OH 111	Floral Design	3
OH 112	Sympathy Floral Designs	3
OH 113	Wedding Floral Designs	3
OH 119	Interiorscape	3
OH 101	Basic OH Skills	3
AG 201	Ag Math	3
Ag 105	Introduction to Ag Computers	3
Ag 193-196	Work Experience	1-4
Required Electives	• • • • • • • • • • • • • • • • • • •	
(see below)		° 9

Total Units Needed for Certificate

31-34

Elective Courses (choose nine (9) units)

OH 104	Nursery Practice	3
OH 105	Plant Propagation	3
OH 7	Landscape Design	3
OH 108	Landscape Construction	3
Art 1	Art Appreciation	3
Bus 170	Retail Store Salesmanship	3
Bus 171	Applied Professional Selling	3

Units

2

3

3

3

3

3

3

20

4

3 3 3

Food Service

Consumer/Family Studies Division

The food service industry is the #1 retail employer in the United States. Statewide, the restaurant business alone is a billion dollar industry, one of California's largest, with a projected annual growth rate of at least 7% over the next 10 years. Students majoring in this field will find a wide variety of contemporary employment opportunities such as chef, cook, caterer, menu planner, sales representative and food service manager in the restaurant industry; in schools, hospitals, day-care centers for the young and elderly, and other commercial food facilities; and in residential and health facilities.

Required Courses

Course <u>Number</u>

Nutr/Food 107 Nutr/Food 105 Nutr/Food 106 Nutr/Food 18 CFS 195 Bus 188 Required Electives (see below)

<u>Course Title</u>		
Sanitation and Safety		• .
Commercial Food I		* . ::
Commercial Food II		3.14
Nutrition		
Work Experience	÷.	
Human Relations in Business		
	÷ 7	<u>к</u>

Total Units Needed for Certificate

Elective Courses (choose three (3) units)

Introduction to Personal Computers
Accounting for Service Businesses
Review of Arithmetic for Business
Business Math

Business Division

Figures show that 65% of all new jobs are in the secretarial/clerical field. With the service sector of our economy growing so rapidly, it is very important that a majority of the population be trained in general business/clerical occupations. This program teaches a wide variety of skills such as compiling reports, posting data, preparing statements, operating typewriters, calculators and duplicators. Students should be able to find entry-level employment in all phases of business, including jobs as clerk typists, receptionists and word processing operators.

Required Courses

Course <u>Number</u>

Business 160 Or Business 161 Or Business 162 **Business 201 Or Business 287 Business** 182 Or Business 188 Or Business 174 Or Business 170 **Business** 18 Computer 130 Computer 131 Business 184 **Business 259** Business 268 Business 295

Beginning Keyboarding

<u>Course Title</u>

Deginning Reyboarding
Intermediate Keyboarding
Advanced Keyboarding
General Vocational Accounting
Accounting for Service Businesses
Introduction to Business
Human Relations in Business
Marketing
Retail Store Salesmanship
Business Law
Introduction to Computers
Beginning DOS
Business Communications
Records Management
Electronic Calculating
Business Arithmetic

Total Units Needed for Certificate

30-32

Units

3 **3**

3

5

3

3

3

3

3

4

4

3

3

2 2

3

Elective Courses

None

Horse Production

Agriculture Division

The Horse Management and Training Certificate Program includes classes that will expose students to many phases of the horse industry. Students will have the opportunity to train their own horses, along with the college owned stock. Students will study and learn about career and employment opportunities in the equine industry.

Required Courses

Course Number

Units

31-35

An Sci 120a-d	Equitation (Requires 2 se	mesters) 2/2
An Sci 124a-d	Colt Breaking	2
An Sci 122	Horse Husbandry	3
Ag Mgt 105a-b	Introduction to Ag Compu	iters (1st semester) 3
Ag 193-194-195-196	Work Experience	1-4
An Sci 1	Intro to Animal Science	3
An Sci 103	Animal Nutrition	3
An Sci 123	Horse Production	· · · · · · · · · · · · · · · · · · ·
An Sci 104	Diseases and Sanitation	11 - 11 - Alexandria (* 1 3 -
Required Electives		
(See below)		Construction of the state of the second s
•		

Course Description

Total Units Needed for Certificate

Elective Courses (Choose six (6) units from this list)

Ag Mgt 104	Farm Records	an 1995 - 3
Ag Mgt 105a-b	Introduction to Ag Comp	outers (2nd semester) 3
Ag Mech 103	Farm Power	3
Ag Mech 102 a-d	Farm Construction	. In equivalent, we have 2
Ag 4	Soils	3
Ag Mgt 102	Ag Sales and Marketing	3
Ag 201	Ag Math	

91

Horse Production

Horticulture Technology

Agriculture Division

Horticultural Technology continues to be one of California's fastest growing industries. Students learn to grow and arrange plants and flowers, training in such areas as nursery production and operations, landscape drafting, design and construction, plant care and maintenance.

COS has many of its students now employed in ornamental horticulture and related agricultural fields such as floral designer, cut flower grower, plant propagator, retail florist, production foreman, plant inspector, pest control operator and garden writer.

Required Courses

Course <u>Number</u>	<u>Course Title</u>	Units
ОН 101	Basic OH	3
OH 2 or 3	Plant ID	3
OH 104	Nursery Practice	3
OH 105	Plant Propagation	3
OH 106	Landscape Drafting	3
OH 109	Landscape Maintenance	3
OH 108	Landscape Construction	3 -
OH 110	Turfgrass Management	3
OH 107	Landscape Design	3
Ag 193-196	Work Experience	1-4
Required Electives (see below)		3
Total Units Needed for Certificate		31-34

Elective Courses (choose three (3) units)

Ag 3	Economic Entomology	3
Ag 4	Soils	3
Ag 5	Fertilizers	3
OH 118	Xeriscape	3
OH 111	Floral Design	3
OH 117	Sprinkler Irrigation	3

35

1-4

Human Service (Social Work)

Social Science Division

Community needs of today require the needs of a variety of social service agencies to provide a variety of social service agencies to provide for the economic and emotional needs of those in difficulty. There is a need for trained individuals to provide service in these agencies on a variety of levels. Some of these programs have positions available for those with two years of college instruction. This is a two year program to prepare students to work in a community setting at a beginning or paraprofessional level, to train as aides in welfare eligibility work, mental health and family service aide, and other social service agency positions. Students will be required to spend several hours weekly as community service interns during the two-year program.

Required Courses

Course Number

Hum Serv 120 Hum Serv 21 'Hum Serv 122 Hum Serv 193 Hum Serv 194 Hum Serv 195 Hum Serv 228 Hum Serv 29 Psych 1 Psych 10 Sociology 126 **CFS 186** Or Business 297 **Computer 5**

<u>Units</u>
3
4
3
2
2
2
2
2
3
· · · · · · · · · · · · · · · · · · ·
· 3
1993) and a second 3
3
3

Total Units Needed for Certificate

Elective Courses

Hum Serv 196

Work Exp/Internship

Information Services/Wordprocessing

Business Division

If the world of whirring disks, chattering printers and blinking lights sounds interesting, consider enrolling in the Information/Word Processing option. This program teaches concepts, procedures and terminology, as well as the skills and applications necessary to operate computers. Information/Word Processing specialists find jobs in the automated office utilizing personal computers and various software packages such as word processing, database management and electronic spreadsheets.

Required Courses

Course Number

Computer 130 Or Computer 5 Computer 131 Computer 134 Computer 135 Computer 136 Computer 137 **Business** 161 Or Business 162 **Business** 184 Or Business 293 **Business 258 Business** 166 **Business 269**

Course Title

Introduction to Computers 4 **Computer Information Systems** 3 Beginning DOS 3 2 Telecommunications **Desktop Publishing for Business** 4 3 Wordprocessing with WordPerfect Wordprocessing with WordStar 3 Intermediate Keyboarding 3 **Advanced Keyboarding** 3 **Business Communications** 3 **Business English** 3 Office Procedures 3 **Professional Employment Preparation** 3 Machine Transcription 2

Total Units Needed for Certificate

32-33

<u>Units</u>

Elective Courses

(alternate classes if typing requirement is met)

Business 132	Advanced DOS	2
Business 182	Introduction to Business	3
Business 188	Human Relations in Business	3
Business 260	Career Dressing	1
Business 268	Electronic Calculating	2

Enrollment in Business 160 or Business 360 is recommended if the keyboarding skill requirement is not met.

Units

3

3

3

3 2

2

3

3

3

3

3

1-3

32-34

Interior Design

Consumer/Family Studies Division

Interior designers develop an eye for line, form, color and texture to create pleasing spatial arrangements. There is an emphasis on art and drawing as well as knowledge of fashion and marketing. Interior design is a broad field. Careers include commercial/residential interior designer; color/materials consultant for model condominiums and in-house corporations such as hotel and restaurant chains; retail showroom salesperson in drapery, wallcovering, floor covering, upholstering and furniture stores; window display and visual promotion; and wholesale manufacturer's representative.

Required Courses

Visual Merchandising and Promotion

Drawing for Building Construction

Drawing for Building Construction

Introduction to Computer Drafting

Introduction to Design

Design Fundamentals

Freehand Drawing

Work Experience

Perspective

Course Title

Material/ID

Housing/ID

Textiles

Course <u>Number</u>

Int Des 121 Int Des 122 Fash 76 Fash 178 Bld Tr 200 Bld Tr 201 Draft 110 Arch 10 Arch 11 Arch 120 Arch 121 CFS 193, 194 or 195

Total Units Needed for Certificate

Elective Courses

None

Agriculture Division

Landscapers are creative designers and installers of residential and commercial gardens and landscapes. They take a plot of land and turn it into an aesthetically appearing setting. Students learn drafting, designing, estimating, contracting, installation and maintenance and then create their own 10x10 foot patio scenes on the college farm. This program prepares students for work as a landscape contractor, designer, or draftsperson, turf manager or grounds maintenance manager.

Required Courses

Course Number **Course Title** <u>Units</u> OH 2 Plant Identification 3 OH 3 Plant Identification 3 **OH 106** Landscape Drafting 3 OH 7 Landscape Design 3 **OH 108** Landscape Construction 3 **OH 109** Landscape Maintenance 3 **OH 110** Turfgrass Management 3 Ag Mech 109 Small Engines 3 Work Experience Ag 193 1-4 **Required Electives** (see below) 6 **Total Units Needed for Certificate** 31-34

Elective Courses (choose six (6) below)

OH 101	Basic Ornamental Horticulture	3
Ag 4	Soils	3
Ag 105	Fertilizers	3
Ag 201	Agricultural Mathematics	3
OH 105	Plant Propagation	3
OH 117	Sprinkler Irrigation	3
OH 118	Xeriscape	3
OH 119	Interiorscape	3
	_	

Law Enforcement

97

Law Enforcement

Special Programs Division

Educational requirements have made entry into the law enforcement field highly competitive. An increasing number of prospective employers now require interested persons to have completed basic training requirements before applying for full-time or reserve positions. The Law Enforcement Training program equips students with the skills and knowledge to enter this highly rewarding field. The Law Enforcement Training program also provides inservice training for employed peace officers, correctional personnel and security guards. Each of the courses listed below offers a certificate of completion as well as unit credit.

Required Courses

Course		
Number	Course Title	Units
AJ 200	Basic Police Academy	12
	(Prerequisites: High School graduate	
	no felony convictions/passing score on	
	P.O.S.T. reading and writing test)	
AJ 201a-e	Advanced Officer Training	1.5
	(Prerequisite: AJ 200)	
AJ 203	Traffic Collision Investigation	2
	(Prerequisite: AJ 200)	
AJ 204	Supervisory Techniques	5
	(Prerequisite: AJ 200)	
AJ 208	PC 832, Laws of Arrest/Non-Firearms	· 2
	(Prerequisite: None)	
AJ 209	Agency Firearms (PC 832)	1.5
	(Prerequisite: None)	
AJ 210	Level III Reserve Peace Officer	3
	(Prerequisite: None)	
AJ 211	Level II Reserve Peace Officer	5
× .	(Prerequisite: AJ 210)	
AJ 212	Level I Reserve Peace Officer	• • 3
	(Prerequisites: AJ 210/AJ 211)	
AJ 220a-d	Basic Security Firearms	1
	(Prerequisite: None)	
AJ 221	Security Side Handle Baton	1
	(Prerequisite: None)	4.
AJ 299	Topics in Administration of Justice (Prerequisite: AJ 200)	0-12

Maintenance Technician - Level 1

Industry and Technology Division

Level 1 Maintenance Technician is a one year (two semesters) 30 hour per week training program to provide students with job entry skills. The two non-degree 12 unit classes will provide students with over 1,050 hours of skill training in the areas of electricity, electronics, welding, machining, refrigeration, hydraulics, pheumatiacs, and other maintenance areas.

Required Courses

Course <u>Number</u>	<u>Course Title</u>	<u>Units</u>
(1st semester)		
I&T 300a-b	Maintenance Technician, Level 1	12
(2nd semester)		. ,
I&T 300a-b	Maintenance Technician, Level 1	12
Total Units Needed	d for Certificate	24

Elective Courses

None

Maintenance Technician - Level 2

Industry and Technology Division

Level 2 Maintenance Technician is a program made up of mechanical, electrical, and welding courses which should prepare a student with mechanical aptitude and interest to enter employment as a more advanced general maintenance main in a shop, packing plant or factory. General education courses may be chosen from the list of options listed under requirements for graduation for those who wish to earn an associate degree.

Required Courses

Course Title

Course <u>Number</u>

3
3
3 -
3
3
1-3
3
3
3
3
3
3
3
1.5
2

Total Units Needed for Certificate

40.5-42.5

Units

Marketing

Business Division

Marketing is a wide-ranging concept. It is much more than advertising and promoting a product. It involves everything from researching whether a new product is needed to labeling, packaging, transportation, warehousing, merchandising and personal selling. Every organization's ability to survive is directly affected by marketing, and the Marketing option is a varied one. Approximately one out of three jobs is directly or closely related to marketing. Entry level jobs exist in manufacturing, service firms, wholesalers, retailers, advertising agencies, consulting firms and private and public non-profit organizations such as hospitals.

Required Courses

Course Number

Course Title Business 170 Retail Store Salesmanship 3 **Business** 174 3 Marketing **Business 171** 3 **Applied Professional selling** 3 Or Business 182 Introduction to Business 3 Or Business 188 **Human Relations in Business** 3 **Business 287** Accounting for Service Businesses 5 Or Business 201 **General Vocational Accounting** 4 **Business** 18 **Business Law** 4 Computer 130 Introduction to Computers Computer 131 Beginning DOS 3 3 **Business** 184 **Business Communications Electronic Calculating Business 268** 2

Units

28-30

Total Units Needed for Certificate

Elective Courses

None

Modeling

Consumer/Family Studies Division

The modeling option prepares the student for the professional and personal responsibilities of careers in fashion modeling and advertising, television and broadcasting, theater and stage presentation and public speaking. In addition to people interested in a modeling career, there are many whose employment and personal lives will be enhanced by the knowledge of modeling. This includes broadcast spokespersons, fashion coordinators and consultants, and individuals interested in boosting their self-confidence in dealing with the public.

Required Courses

Course Title	<u>Units</u>
Makeup	3
Modeling	3
Fashion Image	3
Introduction to Fashion	3
Applied Color Theory	2
•••	
	3
· · ·	
	3-4
1 for Certificate	21-22
	Makeup Modeling Fashion Image Introduction to Fashion Applied Color Theory Career Dressing Fundamentals of Public Speaking

Elective Courses (choose three to four (3-4) units)

Nutr/Foods 18 Or Nutr/Foods 119	Nutrition Nutrition for Fitness		3 2
AND one of the follow	ring:		
PE la-d			1
Dance 8a-d			1
Dance 10a-d			1

Modeling

Nursery Technology

Agriculture Division

Course

Nursery Technology is an ideal field for people with a "green-thumb." Students work in the two-acre nursery area of the COS Farm propagating plants in the two large green houses, growing and maintaining house and garden plants, and learning to package them attractively for sale to retail and wholesale industries. Job opportunities in this field include nursery manager, owner and salesperson, grower, production foreman, turf specialist, landscape nurseryman and estimator.

Required Courses

Comse		
Number	<u>Course Title</u>	<u>Units</u>
· · · · · · · · · · · · · · · · · · ·		_
OH 101	Basic Horticulture Skills	3
OH 2	Plant Identification I	3
OH 3	Plant Identification II	3
OH 104	Nursery Practices	3
OH 105	Plant Propagation	3
OH 7	Landscape Design	3
OH 109	Landscape Maintenance	3
OH 110	Turfgrass Management	3
OH 106	Landscape Drafting	3
Required Electives		
(see below)		6
Total Units Needed	for Certificate	33

Elective Courses (choose three (6) units)

Ag 3	Economic Entomology	3
Ag 4	Soils	3
Ag 5	Fertilizers	3
OH 111	Floral Design	3
OH 117	Sprinkler Irrigation	3
OH 119	Xeriscape	. 3
Ag 193	Work Experience	1-4

Nutrition Aide

CATTERA

Consumer/Family Studies Division

The importance of proper nutrition is becoming more apparent as the American public becomes more health conscious. The Nutrition Aide program is designed for students working in clinical nutrition facilities or considering the field of dietetics. Completion of this program qualifies the student, under the guidance of a clinical dietitian or dietetic assistant, to work in a nutritional care department of a hospital, rest home or other facility that needs a person with foods and nutritional training.

Required Courses

<u>Number</u>	Course Title	Units	F
Nutr/Food 101	Foods	3	
Nutr/Food 107	Sanitation and Safety	2	
Nutr/Food 18	Nutrition	3	
CFS 194, 195 or 196	Work Experience	2-4	
Required Electives	•		
(see below)		2-3	
Total Units Needed	for Certificate	12-15	

Elective Courses (choose two to four (2-3) units)

Nutr/Food 112	Children's Nutrition		3
Nutr/Food 119	Sports Nutrition		2

Plant Science and Industry

Agriculture Division

One of the greatest challenges of mankind is to produce enough food for future generations. To meet this challenge, students in the Plant Science and Industry program are trained in all aspects of crop production that will maximize yields as well as profits. Working on the COS Farm, they receive practical as well as technical experience in soils, irrigation, weed control, plant diseases and pests, fertilizers, cultivating and crop production. Good job opportunities exist in farming, irrigation and crop production as well as related industries such as equipment sales, fertilizers, crop protection and consulting.

Required Courses

Course Title

Course <u>Number</u>

Pint Sci 1 Pint Sci 102 Pint Sci 103 Pint Sci 111 Ag 3 Ag 4 Ag Mech 104 Ag Mgt 104 Ag 193-196 Required Electives (see below)

Introduction to Plant Science	3
Row Crops	ʻ 3/3
Cereal & Oil Crops	3
Citrus Fruits	3
Agricultural Entomology	3
Soils	3
Farm Machinery	3
Farm Records	3
Work Experience	1-4
	6

Units

31-34

Total Units Needed for Certificate

Elective Courses (choose six (6) units)

An Sci 1	Introduction to Animal Science	3
Ag Mgt 5 a-b	Agricultural Computers	3
Ag 201	Agricultural Mathematics	3
Plnt Sci 104	Forage Crops	3
Plnt Sci 105	Weeds and Weed Control	3
Plnt Sci 12	Fruit and Nut Tree Production	3
Plnt Sci 113	Grape and Vine Production	3
Ag 105	Fertilizers	3
Ag Mech 108	Irrigation	3

P.O.S.T. Basic Police Academy

Special Programs Division

The basic Police Academy is designed for anyone who desires a career as a law enforcement officer. Police officers must be certified, and the COS Academy is certified by the State of California Commission on Peace Officer Standards and Training (P.O.S.T.). This intensive course prepares a person to enter full-time police work with all the basic skills necessary, including training in fire arms, driver's training, CPR, intoxilizer, officer survival, community relations, and criminal law.

Required Courses

Course Title

Course <u>Number</u>

Units

12

AJ 200

Basic Police Academy

All applicants must be in good physical health, and certified by a medical doctor to participate in a strenuous physical activity program, over 18 years of age and no felony criminal record. A materials fee is charged in addition to normal college fees. Interested persons should contact the law enforcement training department prior to registering for the course for details of the application process.

Prerequisites:

Passing score on the entry level reading and writing test. This is a standardized examination administered at the College for non charge by the State of California Commission on Peace Officer Standards and Training.

Police Reserve (PC 832)

Special Programs Division

The Police Reserve program is designed for students wanting to work part-time as a police officer. The program includes training at three levels as required by the State of California Commission on Police Officer Standards and Training (P.O.S.T.). All classes are in the evening.

Level III training qualifies the student to work in police work under close supervision. Level II qualifies the student to ride with a regular police officer. Level I qualifies the student to ride alone as a part-time officer.

All students must be in good physical health, over 18 years of age and have no felony record.

Required Courses

Course <u>Number</u>	<u>Course Title</u>	<u>Units</u>
<u>LEVEL III</u>		,
AJ 210	Laws of arrest and Firearms	3
<u>LEVEL II</u>		
AJ 211	CPR, First Aid and Role of the Backup Officer, Weaponless Defense, shotgun	2
<u>LEVEL I</u>		
AJ 212	Completion of a total 136 hours of training	7.5

Elective Courses

None

Real Estate

Business Division

Real estate is an exciting and energetic business with large amounts of money at stake. Real estate salespeople bring together buyers and owners of property to work transactions. Working under the supervision of a real estate broker, they sell, exchange and rent real estate for clients. Tasks include obtaining "listings" (agreements to sell property), locating potential customers, making appraisals, showing property, negotiating agreements, renting and managing property and developing new building projects.

Real estate salespeople must be licensed by the state. The COS program gives introductory training helpful in studying for the license and provides continuing education for people seeking license renewal.

Required Courses

Course		
Number	<u>Course Title</u>	Units
Business 14	10 Real Estate Principles	3
Business 14	11 Real Estate Finance	. 3
Business 14	Legal Aspects of Real Estat	e 3
Business 14	13 Real Estate Economics	3
Business 14	15 Real Estate Appraisal	3
Computer 1	30 Introduction to Computers	· · · · 4
Required El	ectives	
(see below)		9
Total Unit	s Needed for Certificate	28

<u>Elective Courses (choose nine (9) units)</u>

Business 18	Business Law		4
Computer 131	Beginning DOS		3
Business 201	General Vocational Accounting		5
Business 202	General Vocational Accounting		5
Or Business 1	Principles of Accounting	•	4
Speech 1	Fund of Public Speaking		3

Real Estate

Secretarial

Business Division

The strength of any well-run office is directly related to its secretary. A person trained in secretarial skills must be interested in all aspects of office operations. Therefore, this program incorporates the clerical skills of filing and typing with the more advanced skills of shorthand, word processing and administrative responsibilities. The secretarial position is usually a higher paying position and often acts as a springboard for advancement within the company. Related fields include legal secretary, medical secretary and office manager.

Required Courses

Course <u>Number</u>

Business 150
Business 151
Business 160
Or Business 161
Or Business 162
Computer 136
Or Computer 137
Business 182
Or Business 188
Computer 130
Computer 131
Computer 151
Business 184
. .
Business 184

Course Description

Units

Elementary Shorthand	5
Advanced Shorthand	5
Beginning Keyboarding	3
Intermediate Keyboarding	3
Advanced Keyboarding	3
Wordprocessing with WordPerfect	3
Wordprocessing with WordStar	3
Introduction to Business	3
Human Relations in Business	3
Introduction to Computers	4
Beginning DOS	3
Business Communications	3
Office Procedures	3
Business English	3
1 for Certificate	35

Total Units Needed for Certificate

Elective Courses

(alternate classes if typing and/or shorthand requirement is met)

Computer 132	Advanced DOS	2
Computer 135	Desktop Publishing for Business	4
Business 166	Professional Employment Preparation	3
Business 260	Career Dressing	· 1

Units

1

1

Security Guard Training

Special Programs Division

The Security Guard training program offers courses meeting state requirements for the certification of private security officers in such areas as fire arms, police baton and tear gas, as well as other courses improving skills of those already working in the field of security. These courses are offered on Saturdays several times every semester. Private security is a growing field with a variety of job opportunities in manufacturing firms, retail and wholesale businesses, hospitals, public institutions and in security systems.

Required Courses

Course <u>Number</u>

AJ 220

Course Title

Basic Firearms 16 hours

Police Training

12 hours

AJ 221

Prerequisites:

Must be over 18 years of age with no felony record. The student must show U. S. citizenship to qualify for the Bureau of Consumer Affairs Security Firearms certificate. Other students, not wishing this certificate, may take the course for general interest.

Citizens'/security tear gas is offered as a community service course.
Certificate Program

CAUTER

Welding

Industry and Technology Division

The Welding Technology Certificate of Completion requires a grade of "C" or better in the five (5) following classes:

Required Courses

<u>Number</u>	Course Title	<u>Units</u>
Welding 161	Oxy-Acetylene Welding	4
Welding 162	Shielded Metal Arc Welding	4
Welding 171	Advanced Welding I	4
Welding 172	Advanced Welding II	4
Welding 181	Blueprint Reading and Ferrous Metallurgy	3
Required Electives		
(see below)		3-4
Total Units Needed	for Certificate	22-23

The Welding Operator Qualification involves manipulative tests that conform to the A.W.S. D1.1 or D1.2 Structural Code, A.S.M.E. Pressure vessel codes, U.S.D.A. Sanitary Food Processing codes, and others.

Elective Courses (choose three to four (3-4) units)

Drafting 100 Drafting 110 Chemistry 353 Applied Drawing Int to Computer Assist Draft Survey of Intro Chemistry 3

4

3







Look.....

. ...

We have a NEW

Course Numbering System

We have changed our course numbering system to enable our students to easily identify those courses needed in their plan of study at College of the Sequoias. We apologize for the inconvenience to those students who have memorized the old numbers; but we are sure they will benefit from this change in future planning of their studies at College of the Sequoias. Below is the new course numbering system.

Explanation of Numbering System

All courses numbered 299 or lower are associate degree credit courses. They can be applied toward the 60 unit AA/AS graduation requirement and for vocational certificates.

1-99	to course accepted by the University of California system. For specific course to course articulation (equivalency), consult the Counseling Office or the Transfer Center.
1-199	Courses accepted by the California State University system and most other four-year colleges and universities. For specific course to course articulation (equivalency), consult the Counseling Office or the Transfer Center.
200-299	Associate degree applicable. Although not intended for university transfer, these courses may be accepted by some colleges in certain majors, especially if provided for in an articulation agreement.
300-399	College credit, Non-degree applicable, and basic skill courses.
400-499	Non-credit, general courses.
500-599	Not assigned at this time
600-699	Non-credit Handicapped courses.
700-799	Contract Educational Courses (non-ADA Courses)
800-999	Community Services Activities (non-ADA Courses)
1000-1099	Professional Development courses for faculty and staff. (0 unit, non-ADA courses)

Note: Courses Identified on the following pages with an "*" by the course number are courses which were in the process of being approved by the College Curriculum Committee at the time of this catalog publication.

ACCOUNTING

ACCT 1 PRINCIPLES OF ACCOUNTING 4 UNITS Hours: 5 Lecture/Discussion

A course that introduces students to fundamental business organization; recording of business financial activities; accounting statements preparation and inter-relationships; and the analysis of financial activities for sole proprietorships, partnerships and corporations. Formerly BUS 1A.

Recommended Prerequisite: Sophomore standing (at least 30 college units completed).

ACCT 2 PRINCIPLES OF ACCOUNTING 4 UNITS Hours: 5 Lecture/Discussion

This is a second transfer-level Principles of Accounting course, which expands the discussion of corporate financing and ownership; continues financial statement analysis and interpretation; studies managerial control, information systems, cost accumulation and capital budgeting techniques; and other measuring and reporting methods. Formerly BUS 1B. **Recommended Prerequisites:** Satisfactory completion of BUS 1.

ACCT 201	GENERAL VOCATIONAL	5 UNITS
	ACCOUNTING	
Hours	5 Lecture/Discussion	

Accounting 201 is a vocational course in accounting principles and practice covering the effect of transactions, adjustments, closing and revising entries on the asset, ilability and owner's equity elements of professional, service and merchandising businesses. The above are recorded in general and various special journals and posted to general and subsidiary ledgers. Eight or ten column work sheets (working papers) are used for the purpose of organizing the financial data for the financial reports. Formerly BUS 80A.

UNITS 5

ACCT 202 GENERAL VOCATIONAL ACCOUNTING

Hours: 5 Lecture/Discussion

This course continues to apply the fundamental accounting equation to additional topics, including: Computations for and recording of interest bearing and discounted notes payable, interest bearing notes receivable, discounting notes receivable and the end-of-period adjustments. Direct write-off and reserve methods for the treatment of uncollectible accounts. Methods of assigning values to ending inventories. In-depth study of various methods of depreciation and assigning costs to plant and equipment. The voucher system of accounting. Partnerships: characteristics of, division of net income or loss, realization and dissolution. Corporations: various classes of capital stock and related transactions, recording of and paying taxes, retained earnings and appropriations, cash and stock dividends. Issuance of bonds, bond sinking funds and bond redemptions. Analyzing and interpreting financial statements: vertical, horizontal and other. Manufacturing accounting: recording the various elements of, inventory values and the statement of the cost of goods manufactured. Formerly BUS 80B.

Recommended Prerequisites: Business 201 or Bus 1 or the completion of high school bookkeeping (accounting) with a grade of "A" or "B" in each of the four semesters, or the equivalent.

ACCOUNTING

ACCT 287 ACCOUNTING FOR SERVICE BUSINESSES

Hours: 3 Lecture/Discussion

3 UNITS

A vocational course in accounting principles and practice covering the effect of transaction, adjustment, and closing entries on the asset, liability and owner's equity elements of professional and/or service businesses. The concepts of cash, modified cash and accrual basis of accounting are studied. Other topics studied are bank statement reconciliations, petty cash funds, change funds, cash short or over, completing payroli registers, computing the employers payroli taxes and journalizing the data. This course is most suitable for those persons desiring a practical knowledge of accounting but do not intend to earn a bachelor degree and plan to work only for or have their own nonmerchandising form of business. Formerly BUS 87.

ADMINISTRATION OF JUSTICE

AJ 11 INTRO TO CRIMINAL JUSTICE 3 UNITS Hours: 3 Lecture/Discussion

Introduction to Criminal Justice offers an overview of the entire criminal justice system. This course refers to the structure, functions and decision making processes of the criminal justice system that work with the management and control of crime and criminal offenders—the police, courts, and corrections. Formerly CJ 1. (CAN-AJ 2)

AJ 12 PRINCIPLES & PROCEDURES 3 UNITS FOR THE CRIMINAL JUSTICE SYSTEM

Hours: 3 Lecture/Discussion

An in-depth study of the role and responsibilities of various segments of the criminal justice system including law enforcement, judicial, and corrections. A past, present, and future exposure to each subsystem procedures from Initial entry to final disposition, and the relationship each segment maintains with the rest of the system. Formerly CJ 10.

AJ 13 COMMUNITY RELATIONS 3 UNITS 44 Hours: 3 Lecture/Discussion

An in-depth exploration of the roles of the criminal justice practitioners and their systems. Through interaction and study, the student will become aware of the interrelationships and role expectations among the criminal justice system and the community. Formerly CJ 18.

AJ 14 INTRODUCTION TO 3 UNITS CRIMINAL LAW I

Hours: 3 Lecture/Discussion

Introduction to Criminal Law I is a historical development and philosophy of law and constitutional provisions, definitions, classification of crime, and their application to the criminal justice system; legal research; study of case law, methodology, and concepts of law as a social force. Formerly CJ 20. (CAN-AJ 4)

ADMINISTRATION OF JUSTICE

AJ 110 POLICE PATROL PROCEDURES 3 UNITS Hours: 3 Lecture/Discussion

A practical and thorough study of the procedures, philosophies, and concepts of the police patrol system. Covers the important areas of patrol preparation, field observation, field interviews, patrol systems, arrest powers, basic investigative techniques, public service responsibilities, and their relationship to the criminal justice system. Formerly CJ 5.

AJ 111	WRITING FOR	3 UNITS
	CRIMINAL JUSTICE	
Hours.	3 Lecture / Discussion	

Techniques of communicating facts, information, and ideas effectively in a simple, clear, and logical manner in the various types of criminal justice system reports; letters, memoranda, directives, and administrative reports; emphasis on criminal justice terminology, use of English and organization of information; practical experience in note taking and report writing; presentation of testimony in court. Formerly CJ 15.

AJ 112 CRIMINAL EVIDENCE 3 UNITS Hours: 3 Lecture/Discussion

This course involves the origin, development, philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and selzure; and kinds and degrees of evidence and rules governing admissibility. Judicial decisions interpreting individual rights and case studies are also studied. Formerly CJ 22. (CAN - AJ 6)

AJ 113 JUVENILE LAWS AND 3 UNITS PROCEDURES Hours: 3 Lecture/Discussion

This is a course of study in the organization, functions and Jurisdiction of Juvenile Justice agencies in California and the various state Juvenile Justice agencies across the United States. The processing and detention of Juveniles, Juvenile case alsposition, Juvenile status, state and federal court procedures are examined. Formerly CJ 30,

AJ 114 JUVENILE DELINQUENCY 3 UNITS Hours: 3 Lecture/Discussion

This is an introductory course designed to explore the concept of Juvenile Delinquency. Emphasis is focused on defining delinquency and identifying who are the delinquents and theories of causation, (blological, psychological and sociological). A general review of societies' institution for delinquent, including formal agency dealing with delinquent behavior and community based programs designed for the prevention of delinquency. Formerly CJ 31.

AJ 115 CRIMINAL LAW II 3 UNITS Hours: 3 Lecture/Discussion 6 Activity

Historical development, philosophy of law and constitutional provisions; definitions, classifications of crime and their

ADMINISTRATION OF JUSTICE

application to the system of administration of justice; legal research, review of case law, methodology and concepts of law as a social force. Explores substantive crimes against persons, property and the state, as a social, religious and historical ideology. Formerly CJ 21.

Recommended Prerequisites: Adm Jus 11, 12, and 14.

AJ 116 PROBATION AND PAROLE 3 UNITS Hours: 3 Lecture/Discussion

Course contains a historical and theoretical perspective on the organization and functions of probation/parole. An emphasis on probation/parole as community based correctional services; principles and practices at the federal, state, and local levels. A review of the resocialization/reorganization processes pertaining to the criminal/juvenile offender. Formerly CJ 33. **Recommended Prerequisite:** Adm Jus 32 Introduction to Corrections.

AJ 117 CORRECTIONS, INTERVIEWING 3 UNITS AND COUNSELING

Hours: 3 Lecture/Discussion

An introduction to the philosophy and techniques of interviewing and counseling used in probation, parole, and corrections. Formerly CJ 34.

Prerequisite: Eligible for English 1, Adm Jus 11.

AJ 118 CRIMINAL INVESTIGATION 3 UNITS Hours: 3 Lecture/Discussion

This course is an in-depth study of the fundamentals of criminal investigation. Topics covered are techniques of crime scene search and recording, collection and preservation of physical evidence, modus operandi processes, sources of information, interview and interrogation, and follow-up investigation. Formerly CJ 43. (CAN-AJ 8)

AJ 119 CRIMINAL IDENTIFICATION 3 UNITS Hours: 3 Lecture/Discussion

Theory and practice in the study of fingerprints, description of persons, history of criminal identification and modus operandi in its application to individual characteristics. Study of new techniques used in suspect and victim criminal identification. Formerly CJ 44.

AJ 120 WOMEN IN THE CRIMINAL JUSTICE FIELD

3 UNITS

Hours: 3 Lecture/Discussion

Anin-depth study of the professional responsibilities and special functions of women in the administration of criminal justice/ corrections and related fields. The course will examine the historical and current employment of women in the criminal justice profession. Formerly CJ 46.

ADMINISTRATION OF JUSTICE

3 UNITS AJ 121 -**INTRODUCTION - CORRECTIONS** Hours: **3 Lecture/Discussion**

This is an introductory course designed to review concepts of criminal and juvenile corrections. Emphasis is focused on exploring the history, principles and practices in the field of corrections, including local, state and federal correctional institutions. Formerly CJ 32.

Recommended Prerequisite: Criminal Justice 1.

AJ 200	BASIC POLICE ACADEMY	12 UNITS
Hours:	26 Lecture/Discussion	
4 ¹	22 Activity	

Materials Fee: \$75.00

A state certified basic training course for peace officers. Covers introduction to law enforcement, criminal law, evidence, administration of justice, criminal investigation, communitypolice relations, patrol procedures, traffic control, juvenile procedures, defensive tactics, firearms, and first aid. This course complies with the State Commission on Peace Officers Standards and Training Regulations. Formerly CJ 82.

Prereauisite: Passing score on the P.O.S.T. entry level reading and writing test, high school diploma or G.E.D., no felony criminal record, and a valid California Driver's License.

AJ 203 **TRAFFIC COLLISION** 2 UNITS INVESTIGATION 36 Lecture/Discussion Hours: 4 Lab

This 40-hour course is intended to upgrade officer's skills in conducting preliminary investigations of traffic collisions. Formerly CJ 60i.

Recommended Prerequisite: AJ 200 or its equivalent.

SUPERVISORY TECHNIQUES AJ 204 **5 UNITS** Hours: 40 Lecture/Discussion Variable Lab hours

The course satisfies a state mandate for the training of law enforcement first line supervisors. Topics include: values, ethics, professional principles, leadership styles, civil liability, performance appraisal and corrective counseling. This is a lecture-intensive course. However, role playing is utilized. Formerly CJ 83.

Prerequisite: Completion of Administrative Justice 200 or its equivalent.

AJ 208	P.C. 832 (NON-FIREARMS)	2 UNITS
Hours:	32 Lecture/Discussion	
	8 Lab (40 hour course)	

Designed to satisfy the curriculum standards of the Commission on Peace Officers' Standards and Training (POST) as required by Penal Section 832. Topics include: Professional Orientation, California Criminal Law, Rules of Evidence, Laws of Arrest, Use of Force and Community Relations. This course is mandated by state law for persons in diverse peace officer classifications not requiring the carrying of firearms.

COURSE DESCRIPTIONS

ADMINISTRATION OF JUSTICE

AJ 209 PC 832/FIREARMS 16 Lecture/Discussion Hours: 8 Lab

Designed to satisfy the curriculum requirements of the California Commission on Peace Officers' Standards as required by Penal Code Section 832. This course is required for probation officers, correctional officers and diverse other peace officer classifications whose jobs require the carrying of a side arm. Recommended Prerequisite: AJ 208 or equivalent.

AJ 210 LEVEL 3.

Hours:

3 UNITS

1.5 UNITS

RESERVE POLICE OFFICER TRAINING 6 Lecture/Discussion

2 Lab Materials Fee: \$28.00

Designed to satisfy the curriculum standards of the Commission on Peace Officers Standards and Training as required by Penai Code Section 832 in regards to Level III Reserve Peace Officers. Includes: professional orientation, law, laws of evidence, community relations, communications, report writing, arrest and control, firearms safety, care and cleaning, handgun shooting principles, and combat survival tactics. This course is mandated by state law for anyone who will work as a Level III Reserve Peace Officer. Formerly CJ 86A, CJ 86B.

AJ 211 **LEVEL 2. RESERVE**

3 UNITS

PEACE OFFICER TRAINING 8 Lecture/Discussion Hours: 16 Lap

Designed to satisfy the curriculum standards of the Commission of Peace Officers Standards and Training as required by Penal Code section 832 in regards to Level II Reserve Peace Officers. Includes: professional orientation, law, communications, driver awareness, force and weaponry, patrol procedures, traffic, custody, physical fitness and defensive techniques. The course is mandated for anyone who will work as a Level II (Ride-Alona) Reserve Peace Officer. Formerly CJ 86C.

Recommended Prerequisites: Completion of Adm Jus 210.

AJ 212 LEVEL 1, RESERVE

3 UNITS

8 Lecture/Discussion Hours: Lab Hours variable Designed to satisfy the curriculum standards of the Commission on Peace Officers Standards and Training as required by Penal Code section 832 in regards to Level I Reserve Peace officers. includes: professional orientation, police community relations,

PEACE OFFICER TRAINING

law, evidence, patrol procedures, traffic, and criminal investigations. Upon completion of this course, the student will qualify a Level 1 (work alone) reserve peace officer. Formerly CJ 86D.

Recommended Prerequisites: Completion of AJ 210 and 211.

ADMINISTRATION OF JUSTICE

proper land use and conservation, as well as, soil and water management. **Recommended Prerequisite:** Chemistry 1 or 20.

AJ 220a-c Hours:	i BASIC FIREARMS 12 Lecture/Discussion 4 Lab	1 UNIT	AG 105 Hours:	FERTILIZERS 2 Lecture/Discussion 2 Lab	3 UNITS
for persor designed Bureau of Standards aspects o	ed training for private and indu as seeking skills with personal f to meet specific requirements of Consumer Affairs and Commi a and Training. Topics inclu- f firearms use, sidearm familiari fundamentals. Formerly CJ 71	irearms. This course is of the 16 hour California ssion on Peace Officer de: Legal and moral zation and safety, and	regarding applicatio plants ar deficienci	study of fertilizers and soil ame their chemical and physical prop on, value in plant nutrition, interac nd visual recognition of typic es. Formerly AG 5. anded Prerequisites: General Che s.	perties, methods of tion with solls and al plant nutrient
other inte specific re Affairs an	POLICE TRAINING 8 Lecture/Discussion 4 Lab of training for security guards prested persons. This course equirements of the California d the Commission on Peace (P.O.S.T.). Formerly CJ 72a-d.	ls designed to meet Bureau of Consumer	pesticide plant pest pesticide designed	PRINCIPLES OF PESTICIDE USE 3 Lecture/Discussion the fundamentals, basic concept use, handling and application s, pesticide made of action and pe- label interpretation, and worker so for those preparing for agricul or who require continuing educa	with emphasls on stcontrolmethods afety. This course is tural pest contro
AJ 299 a- Hours:	d ADVANCED PEACE OFFICER TRAINING Variable	0-12 UNITS	AG 201 Hours:	AGRICULTURAL MATHEMATICS 3 Lecture/Discussion 1 Lab	3 UNITS
An in-ser manager prescribe Standard designed change v	vice training course for per nent level. This course com d by the California Commiss s and Training (P.O.S.T.). Th to meet current training nee- vith time. Formerly CJ 85a-d. ended Prerequisites: Comple	plies with regulations Ion on Peace Officer ne subject content is ds in the area and will	llvestock percenta	problem-solving In solls, crops, (, poultry, and feeds; discou ges, linear measurements, area , and their application in today's ag	nts and Interest 1, volume, metric
	cademy) or equivalent.	- -	Hours: The cours research l	d SPECIAL TOPICS IN AGRICULTUR 36 Activity se is designed for a student to n an agriculture topic area. A stu- of thirty-six hours doing in-depth st	do individualized dent must spend d
and Ider	ECONOMIC ENTOMOLOGY 3 Lecture/Discussion study of western insects, their lif atification, methods of cor ce in California.		prior appr an outline complete coursels d preconce	oval of the instructor. A hypothesis discussed with the instructor and a after the research has been esigned to give students an opport lived ideas about agriculture sub o prove or disprove their theories.	will be established term paper will be conducted. The unity to investigate jects and then do
	SOILS 2 Lecture/Discussion 2 Lab Fee: \$20.00 Se covers the biological, ch	3 UNITS	AG 300 Hours:	INTRODUCTION TO THE AGRICULTURAL INDUSTRY 3 Lecture/Discussion 1 Lab/Demonstration	3 UNITS
genetic s	oll properties, interpretation of al management and produc	of solls information for		e will survey the agriculture indu on careers, economics, animal, c	

This course will survey the agriculture industry with a special emphasis on careers, economics, animal, and crop sciences. This is one of a series of courses designed to help student develop competence and confidence necessary for successful college study in both academic and vocational courses. **Recommended Prerequisites:** Must be enrolled in the SUCCESS Program.

AGRICULTURE

AGRICULTURE

1 UNIT

AG 301 a-d VECTOR CONTROL I Hours: 16 Lecture/Discussion 4 Activity

A course of regional training for public agency Vector Control personnel to meet blennial State certification requirements. Formerly AG 900a-d.

Prerequisites: Prospective or certified local public health Vector Control personnel, or by permission of division faculty.

AG 363	SPANISH FOR FARMERS	2 UNITS
Hours:	2 Lecture/Discussion	
	1 Lab	

This course is designed to give students an understanding of the Spanish language as used by the farmworker. Students will practice translating short sentences useful to them in their work. They will also develop their reading of the Spanish language, and will have to practice speaking in Spanish. Formerly AG 63.

AGRICULTURE MANAGEMENT

AG MGT 1	INTRODUCTION TO AGRICULTURE	3 UNITS
	ECONOMICS	
Hours:	3 Lecture/Discussion	

1 Lab

The first course in the Agriculture Management Certificate Program at COS. The course gives a student a basic introduction to economics concerning the decision making process in determining what to produce, how much to produce and the law of supply and demand.

Hours: 3 Lecture/		3 UNITS
	SALES AND MARKETING	
Hours:	3 Lecture/Discussion	
	1 Lab	

This course covers the selling technique as it relates to the agriculture industry. Agriculture selling strategies and approaches are emphasized. Market research, prioritizing potential customers and defining the dominant buying urge are covered. Techniques used in pre-call planning, group and individual sales presentations are used to give students a basic understanding of the selling process. Improving self-image and oral communications skills are stressed for each student. Formerly AG MGT 2.

AG MGT	INTRODUCTION	3 UNITS
103	TO AGRICULTURE MANAGEMENT	

Hours: 3 Lecture/Discussion Materials Fee: \$5.00

An introduction to the basic concepts of management as they relate to agriculture. Emphasis will be placed on the agribusiness organization and how basic management concepts are used in the management of agriculture businesses. The management environment, strategic planning and managerial decision-making will be discussed. The basic steps involved in organizational design will be covered with emphasis on the agribusiness organization and management process. Formerly AG MGT 3.

AGRICULTURE MANAGEMENT

AG MGT	FARM ACCOUNTING		3 UNITS
104			

Hours: 3 Lecture/Discussion 1 Lab

Materials Fee: \$5.00

An introduction to the basic concepts of accounting as they relate to agriculture. The course is designed to give students a basic understanding of accounting principles using a journal and ledger system, income statements, balance sheets and various other types of accounting procedures used in agriculture businesses. Students will be using computer applications for general accounting, payroll, depreciation, enterprise accounting and inventory control in the C.O.S. Agriculture Lab. Formerly AG MGT 4.

AG MGT	INTRODUCTION	3 UNITS
105a-b	TO AGRICULTURE COMPUTERS	

3 Lecture/Discussion

1 Lab Materials Fee: \$10.00

Formerly AG MGT 5a-b.

Hours:

An introduction to the basic concepts of computers as they relate to agriculture. The course is designed to give students a basic understanding of computer principles using software programs such as SuperCalc 5, Wordstar 4.0 and DataBase Management III Plus. The course deals with the use of these software programs as they can be applied to agriculture.

AGRICULTURAL MECHANICS

AG MECH* BASIC FARM MECHANICS

3 Lecture/Discussion

3 UNITS

1 Lab

101

Hours:

Materials Fee: \$7.00

An introductory course in the Ag Engineering discipline designed to give students a basic understanding of the theory and practical operation of farm shops. Formerly AG MECH 1.

AG MECH FARM EQUIPMENT CONSTRUCTION 2 UNITS 102a-d

Hours: 2 Lecture/Discussion 2 Lab

Materials Fee: \$15.00

Farm Equipment Construction is an introductory course designed to give students a basic understanding of the mechanics and technology of building and the repair of agricultural implements. This class will study the characteristics, types, and costs of construction materials for their use in farm equipment and buildings. This is a practical course in building metal and wooden projects having to do with agriculture. Formerly AG MECH 2a-d.

Course descriptions

AGRICULTURAL MECHANICS

AG MECH 103	FARM POWER	3 UNITS	AG MECH	FARM SURVEYING	3 UNITS
Hours:	3 Lecture/Discussion		Hours	3 Lecture/Discussion	
	1 Lab			1 Lab	
<u>Materiais F</u>	<u>ee: \$5.00</u>		Materials F	ee: \$5.00	т. Т
A study in	the basic principles of the mo	dern farm tractor	This course	is designed to prepare the	student to be able to
	operation, service, repairs, a		compute o	cuts, fills, and cubic yards of s	oil to be moved for a
	lemonstrations and lab work will I		land level	ng job. The computer will be	used to develop cut
practicalo	peration of all systems of diesel and	gasolinepowered	and fill map	os for land leveling jobs. The s	student will be able to
fractors. Fo	ormerly AG MECH 3.			transits, rods, and chains to	
			Laser scrap	per and tractors will be used	I to complete a land
			leveling job	 Formerly AG MECH 7. 	
	FARM MACHINERY	3 UNITS			,
104	· · ·				×
Hours:	3 Lecture/Discussion				
	1 Lab			IRRIGATION	3 UNITS
Materials F		- 6	108	2 Lookuro (Discussion	
A study in t	he basic principles of the mode	in tarm equipment	Hours:	3 Lecture/Discussion	
	he operation, service, repairs, c lemonstrations, and lab work will l		Aifundan	nental course designed to	o alvo students an
	peration of many different pleces			ding of basic soil and water rela	
The follow	ng types of farm equipment will	bo studiod: spray		mula is the foundation for irrig	
	plows, planters, cultivators, swo			ndhowmuchwater to apply.	
	ers. Formerly AG MECH 4.			ort of water and salt problem	
			part of the	study. Formerly AG MECH 8.	
			P		
AG MECH	FARM STRUCTURE	3 UNITS	AG MECH	SMALL ENGINES	2 UNITS
105a-b			109	AND EQUIPMENT	
Hours:	3 Lecture/Discussion		Hours:	2 Lecture/Discussion	
	1 lab			2 Lab	
Materials F	<u>ee: \$5.00</u>		<u>Materials F</u>		
Farm Struct	tures Is an integral part of the Agric	culture Engineering	A study in 1	the basic principles of moder	'n small engines, lawn
curriculum	designed to give the student a ba	asic understanding		n equipment including oper	
	ictures. The course will stress farm			nd maintenance. Lectu	
	ction, foundation, types and sizes			itions will include theory and p rent engines and equipment.	
	e and static loads, and determin The repeatable b, c, and d c			t will be studied: spray rigs, lav	
	nigher level of skill developmen		thatchers	edgers, chain saws, sod cutt	ore and many others,
essential k	nowledge learned in "a." Each	of these courses	Formerly A		ers, and many officis.
regulres the	at the student successfully maste	the level below it	ronnony /		
	archy. Formerly ANIMAL SCIENCI				
	······································		AG MECH	AGRICULTURE PROJECT	2 UNITS
			110a-d	CONSTRUCTION	
			Hours:	2 Lecture/Discussion	
	FARM WELDING	2 UNITS		2 Lab	
106a-b			Material Fe		
Hours:	2 Lecture/Discussion			Construction is an introducto	
	2 Lab			nts a basic understanding o	
Materials F				y of building and repairing ag	
	he fundamental principles and p			will study the characteristics	
	etylene welding as used in agric			on materials for their use in t	
	of farm buildings, fences, and eq			This is a practical course in rojects having to do with agr	
	tions, and lab work will include th with many different electrodes a		MECH 10a		iculture. Formeny AG
nositions in	pint types, hard surfacing, cutting			Ч,	
	ll be studied. Formerly AG MEC				
Troice B W					

AGRICULTURAL MECHANICS

ANIMAL SCIENCE

AN SCI 1	INTRODUCTION TO ANIMAL SCIENCE	3 UNITS	AN SCI 105a-c	PREPARING LIVESTOCK FOR SHOWS ANI	2 UNITS D SALES
Hours:	3 Lecture/Discussion 1 Lab		Hours:	2 Lecture/Discussion 2 Lab	
animal pro the more i withjob op	ourse of the world's hunger pi ducts. The origin, characteri important breed of livestock portunities in animal agricultur e applied toward the Anima	stics, and adaption of are discussed, along e. It is a required course	A general selecting I best adva course wil division ilve	56 Semester hrs. Activity Fee: \$10.00 study of handling beef, shee high quality livestock, and g intage for shows and sales. S I have the opportunity to p estock show. Formerly AN SC	rooming them to their students enrolled in this participate at a senior Cl 5.
AN SCI 2 a-b	LIVESTOCK SELECTION AND EVALUATION	2 UNITS N	Recomme	nded Prerequisite: Must be c	ın agriculture major.
	2 Lecture/Discussion 2 Lab the animal form in relation to		AN SCI 107	INTRODUCTION TO MEAT SCIENCE	3 UNITS
performan	ep, and swine species a cedata and live observation. dents for intercollegiate livesi	This course is designed	Hours:	3 Lecture/Discussion 1 Lab	
		3 UNITS	and marke skills includ	the meat processing industry, eting and nutritional aspects of the processing, handling, i	of meat products. Basic Inspection, and storing
Hours:	HORSE HUSBANDRY 3 Lecture/Discussion 1 Lab		OT IVESTOC	k and poultry species. Forme	any any SCI o.
evaluation Anatomy,	ctory course to the current stat of the horse, breeds of hu diseases, unsoundness, vices aent of the equine.	orses, and their uses.	AN SCI 108a-b	MEAT GRADING AND SELECTION	2 UNITS
- ',			Hours:	4 Lecture/discussion 56 Lab hours/semester	
of feedstu livestock. of simple r	ANIMAL NUTRITION 3 Lecture/Discussion 1 Lab the constituents of feeds; the d iffs, and identification of fee Aintroduction to feeding stand ations. The economics in feeding stand ations. The economics in feeding stand ations. Formerly AN	eds for each class of lardsandcomputation eding and purchasing	An advan USDA Qui carcasses may com out-of-stat	Fee: \$5.00 ced course designed to train a ality and Yield Grades of t , along with the selection of w pete in Intercollegiate Judg re. Formerly AN SCI 9a-b. tes: Animal Science 107 reco	beef, lamb, and pork holesalecuts. Students ing events locally and
	es: Animal Science 1, Ag 20		AN SCI 110 Hours:	SWINE PRODUCTION AND MANAG 3 Lecture/Discussion 1 Lab	3 UNITS , EMENT
AN SCI 104 Hours:	ANIMAL DISEASES AND SANITATION 3 Lecture/Discussion 1 Lab	3 UNITS	Basic skills	wineproduction and herdma include pre- and post-nate action. Formerly AN SCI 10.	nagement in California. al care, nutrition, and
parasites symptoms and paras	lence 104 is a study of the c of livestock. Topics of Inte , prevention and treatment ites found in livestock, which prmerly AN SCI 4.	erest include, cause, of common diseases	AN SCI 111 Hours:	BEEF PRODUCTION AND MANAGEMENT 3 Lecture/Discussion 1 Lab	3 UNITS
· ·			Basic skills calf operc	peefproduction and herd mai focus primarily on purebred ations. Formeriy AN SCI 11. tes: Animal Science 1 is recor	and commercial cow-
				·	119

ANIMAL SCIENCE

ANIMAL SCIENCE

AN SCI 1 12 Hours:	SHEEP PRODUCTION AND MANAGEMENT 3 Lecture/Discussion 1 Lab	3 UNITS	ANTHRO 4 PRE-COLUMBIAN ART AND 3 UNITS CULTURE OF THE AMERICAS: MESOAMERICA
	sheepproduction in California management practices. For		Hours: 3 Lecture/Discussion CROSS REF: Art 4 A survey of the major cultures of Mesoamerica from the Early Hunters stage until the European conquest. The course uses art as a vehicle for understanding these peoples' philosophy,
AN SCI 120a-d Hours:	BASIC EQUITATION 2 Lecture/Discussion 2 Lab See: \$50.00	2 UNITS	religion, politics, history, and economics. Included are the Oimec, Zapotec, Tajin, Mixtec, Maya and Aztec. Anthropology 4 is <u>NOI</u> open to students who have completed or are enrolled in Art 4. Formerly ANTHRO 6A. (CAN-ANTH 4) Recommended Prerequisite : English 1
The stude bridle, and proper us under sau students v	nt will learn the proper way to dmount the horse. A great do e of their natural-aids. Ridii ddle, this class is designed with little or no experience, nting to develop their riding	eal offlme is spent on the ng both bareback and to teach not only the but also the advanced	ANTHRO 5 PRE-COLUMBIAN 3 UNITS ART AND CULTURE OF THE AMERICAS: CENTRAL AND SOUTH AMERICA Hours: 3 Lecture/Discussion CROSS REF: Art 5 A survey of the major cultures of Central and South America
	HORSE PRODUCTION 3 Lecture/Discussion 1 Lab clence 123 involves the inter a students have a hands-on		from the Early Hunters Stage until the European conquest. The course uses art as a vehicle for understanding these peoples' philosophy, religion, politics, histofy, and economics. Anthropology 5 is NOT open to students who have completed or are enrolled in Art 5. Formerly ANTHRO 6B. (CAN-ANTH 2) Recommended Prerequisites: English 1.
feeding, Includest foaling, k	and breeding of the horses he care of the brood mares b basic health concerns for ces working with horses of all c	at the COS Farm. This before, during, and after a herd of horses, and	ANTHRO 10 CULTURAL ANTHROPOLOGY3 UNITSHours:3 Lecture/DiscussionCultural Anthropology is a multi-disciplinary subject encompassing the studies of extinct and extant cultures (archaeology and ethnology) around the world. Emphasis is
AN SCI 124a-b Hours:	COLT BREAKING 2 Lecture/Discussion 2 Lab	2 UNITS	placed on the equality of man, his economic systems, religions, politics, kinships, personalities, social structures, linguistics, and cultural changes. Formerly ANTHRO 2. Recommended Prerequisite: Eligibility for English 1.
The stude bridle, ma spent on g of loungin Is designe experience	ee: \$5.00 nt will learn the proper way to bunt the horse for the first time ground work. The student will g, driving the young horse fro ed to teach not only the si ce, but also the advanced ric breaking skills further.	e. A great deal of time is earn the proper method om the ground. This class tudents with little or no	ANTHRO 11 PHYSICAL ANTHROPOLOGY3 UNITSHours:3 Lecture/DiscussionThe course discusses the behavioral characteristics of the living primates, the emergence of man and the evidence presented by human fossils. Human genetics and the probable reasons for human variation are considered, asisthe physical adaptation of the human species to its environment. Formerly ANTHRO 4. Recommended Prerequisite: Eligibility for English 1.
AN SCI" 225	EQUINE INDUSTRIES	1 UNIT	
that proc Students associatio	12 Lecture/Discussion 12 Lab (Field Trip Class) ed field trip will include visito iuce, raise, and sell horses will also visit the nation's larg on offices that handles the ad ands of breeders. Formerly A	on a commercial basis. lest independent breed dvertising and marketing	
120			

ANTHROPOLOGY

ARCHITECTURE

ARCH 10 INTRODUCTION TO ARCHITECTURAL 3 UNITS AND ENVIRONMENTAL DESIGN 2 Lecture/Discussion Hours: 2 Lab

Introduction to creative problem solving within the professional fields of environmental design, specifically: Architecture, engineering, landscape architecture, interior design, construction, and city, urban and regional planning. The elements and principles of design and design processes are introduced as a basis for architectural analysis. Formerly ARCH 1A.

ARCH 11	ENVIRONMENTAL	3 UNITS
	DESIGN FUNDAMENTALS	
Hours:	2 Lecture/Discussion	
	2 Lab	

This course is the study of environmental and visual perception and the articulation of three-dimensional design elements including space, form, scale, texture, and light. Creative problem solving is integrated into development of communication and presentation skills. Formerly ARCH 1B. Recommended Prerequisite: Architecture 10.

ARCH 20	INTRODUCTION	3 UNITS
	TO GRAPHICS & PERSPECTIVE	
Hours:	2 Lecture/Discussion	
	2 Lab	

The course is an introduction to the basic of techniques of graphical analysis, problem solving and presentation. The theories and principles of orthographic and isometric projection, descriptive geometry, vector geometry, and mechanical perspective are applied in the solution of problems in architectural design graphics. The laws of light, shade and shadow are also utilized in the preparation of architectural presentations. Formerly ARCH 2A.

ARCH 21 **BASIC GRAPHICS** Hours: 2 Lecture/Discussion 3 Lab

3 UNITS

Architecture 21 continues the development of the techniques of graphic analysis and communication necessary for architects, engineers, planners and landscape architects. Various media and presentation techniques will be explored including perspective drawings and colored media.

Recommended Prerequisites: Architecture 20. Formerly ARCH 2B.

ARCH 40 STRENGTH **3 UNITS OF MATERIALS**

3 Lecture/Discussion Hours: Architecture 40 Introduces the basic principles of structural systems, structural design, and the structural properties of the materials used in the construction of buildings. Topics include loads on buildings, force systems, equilibrium, trusses, shear, moments and arch and cable structures.

Recommended Prerequisites: Physics 5 and Math 75. Formerly ARCH 6B.

ARCHITECTURE

3 UNITS

3 UNITS

3 UNITS

2 UNITS

ARCH 120 FREEHAND DRAWING Hours: 2 Lecture/Discussion 2 Lab

This is the initial course in freehand drawing. It is an intensive application of the media and techniques for developing interpretative and conceptual drawings within an environmental design context. The architectural entourage is the subject matter for graphical problem solving and commutative skill development. This class is required for all students majoring in architecture and is recommended for students interested in any design profession. Formerly ARCH40.

ARCH	PERSPECTIVE	3 UNITS
121a-c	ALTERNATIVES	
Hours:	3 Lecture/Discussion	
	3 Lab	

A study of the fundamental concepts, principles, and applications of accelerated architectural perspective and rendering techniques. By utilizing charts, entourage, underlayment sheets, and photographs students will generate finished architectural renderings. This course is an invaluable career asset for people interested in architecture, illustration, building trades, and interior design. Formerly ARCH 44a-c.

ARCH 131 LIGHT WOOD FRAME CONSTRUCTION **3 Lecture/Discussion** Hours: 3 Lab

An introduction to residential and light commercial building construction and construction documents including typical materials and systems, methods, codes, and cost estimating. Working drawings and specifications will be prepared for a residence or small commercial structure.

Recommended Prerequisites: Architecture 20 and 160. Formerly ARCH 31.

ARCH 141 STRESS ANALYSIS Hours: 3 Lecture/Discussion

An introduction to the basic principles of stress analysis of structures. Students will analyze and design beams, columns, indeterminate structures, and connections. The effects of soli and hydrostatic pressures on structural systems will be explored. Recommended Prerequisites: Completion of Arch 40. Formerly ARCH 6C.

ARCH 150 COMPUTER ANALYSIS OF **BUILDING ENERGY USE** Hours: 2 Lecture/Discussion

2 Lab

A basic course in the application of computer programs approved by the Callfornia Energy Commission to demonstrate compliance with California Energy Commission to demonstrate compliance with California Building Efficiency Standards (Title 24) of new and remodeled residential and nonresidential buildings. Computer analysis of building heating and cooling requirements, and design applications for building energy efficiency.

Recommended Prerequisites: Some previous experience using computers. Formerly ARCH 20.

ARCHITECTURE

ARCH 160 MATERIALS OF CONSTRUCTION 2 UNITS Hours: 2 Lecture/Discussion

An introduction to the materials and systems of materials used in building construction. The course combines the theories of materials and structures with practical applications of these theories. Field trips will be made to the construction sites of various types of structures under construction. Formerly ARCH 6A.



ART 1 ART APPRECIATION Hours: 3 Lecture/Discussion

3 UNITS

3 UNITS

Art 1 introduces the student to a wide range of approaches to the visual arts, from a study of the personal, social, and physical functions of the arts to an understanding of the elements and principles of design and their utilization in visual analysis. The course culminates in an abbreviated survey of the major periods and artists of art history. Formerly ART 19.

ART 2ART HISTORY3 UNITSHours:3 Lecture/Discussion

Art 2 traces the development of art from the Paleolithic era through the Middle Ages. The interrelationships between art and religion, politics, historical events, and philosophy are major foci of study. Formerly ART 1A. (CAN-Art 2)

ART 3 ART HISTORY Hours: 3 Lecture/Discussion

A survey of the history of art of the Western world and its sociocultural milieu from the Proto-Renaissance to the present. Illustrated lectures. Formerly ART 1B. (CAN-Art 4) **Prereguisites:** Art 2 is NOT a prereguisite to Art 3.

ART 4 PRE-COLUMBIAN ART AND 3 UNITS CULTURE OF THE AMERICAS: MESOAMERICA Hours: 3 Lecture/Discussion

Hours: 3 Lecture/Discussion CROSS REF: Anthro 4

A survey of the major cultures of Mesoamerica from the Early Hunters stage until the European conquest. The course uses art as a vehicle for understanding these peoples' philosophy, religion, politics, history, and economics. Included are the Olmec, Zapotec, Tajin, Mixtec, Maya and Aztec.

Art 4 is <u>NOI</u> open to students who have completed or are enrolled in Anthropology 4. Formerly ART 2A. **Prerequisites:** English 1 recommended.

ART

3 UNITS

ART 5 PRE-COLUMBIAN ART AND CULTURE OF THE AMERICAS: CENTRAL AND SOUTH AMERICA Hours: 3 Lecture/Discussion

CROSS REF: Anthro 5

A survey of the major cultures of Central and South America from the Early Hunters Stage until the European conquest. The course uses art as a vehicle for understanding these peoples' philosophy, religion, politics, history, and economics. Art 5 is **NOI** open to students who have completed or are enrolled in Anthropology 5. Formerly ART 2B. **Prerequisite:** English 1 recommended.

ART 5H ART AND ARCHAEOLOGY - HONORS 4 UNITS

Hours: 4 Lecture/Discussion A study of the fundamental ideas and values evolved by Pre-Columbian South Americans as they are reflected in their art, archaeological remains, historical records, and more recent oral traditions and rituals. Formerly Art 2BH. (CAN-Art 4) Prerequisites: Admission to the Honors Program.

ART 6 **COLOR AND DESIGN 3 UNITS** Hours: 2 Lecture/Discussion 2 Lab **CROSS REF: CFS 6** Materials Fee: \$10.00 This is a basic course in art with a primary purpose of familiarizing the students with elements and principles used in design art. It Includes fundamental concepts of form, shape, line and color In second dimensions. Formerly ART 6A. (CAN-Art 16; CAN H EC 4 includes ART 6 and 7 or CFS 6 and 7) ART 7 COLOR AND DESIGN **3 UNITS** Hours: 2 Lecture/Discussion 2 Lab **CROSS REF: CFS 7** Materiais Fee: \$10.00 This is an advanced course in the principles of color and design.

Inisis an advanced course in the principles of color and design. It includes a further discovery of the basic design elements of form, shape, line, and color. This class takes these previous principles and applies them to the 3-dimensional form. There is an emphasis on personal artistic statements toward assignment in the Art 7 class. Formerly ART 6B. (CAN H EC 4 includes Art 6 and 7 or CFS 6 and 7)

Recommended Prerequisite: Art 6 or CFS 6.

ART 8	DRAWING FUNDAMENTALS	3 UNITS
Hours:	2 Lecture/Discussion	
	2 lab	

Materials Fee: \$10.00

A basic course designed to introduce the beginning student to the fundamentals of drawing. Lecture and studio practice emphasize such fundamentals as perspective and shading, use of a pencil, markers, ink, and charcoal. This course is strongly recommended for beginning art major and persons wishing to develop a non-verbal skill of communication. Formerly ART 7A. (CAN-ART 8)

ART

•	ART	1		ART	•
and comp	DRAWING COMPOSITION 2 Lecture/Discussion 4 Lab <u>se: \$10.00</u> semester drawing course exploring ossitional aspects of drawing. tals, is a recommended prerequisit	Art 8, Drawing	developas process.	ADVANCED PRINTMAKING 1 Lecture/Discussion 3 Lab sec: \$20.00 red course in the use of printm student's personal artistic ideas nded Prerequisite: Art 6 and Ar	using the printmaking
Hours: Materials F Art 10a-dis learner with figure. Forr	FIGURE DRAWING 2 Lecture/Discussion 2 Lab <u>se: \$10.00</u> basically a drawing course designed a variety of approaches in represe merly ART 8a-d. haded Prerequisite: Art 8.		Hours: Materials F A basic co slab constr approache	urse in making object in clay uction techniques. Both add ed will be explored and studen ng level exposure to throwin	Itive and subtractive t will be provided with
Hours: Materials F The manipu practices materials. 1 for preserve	SCULPTURE 1 Lecture/Discussion 3 Lab ee: \$20.00 ulation of 3-dimensional materials using clay, plaster, wood, fibers echniques of sculpturing and the fir ation. Formerly Art 10a-d. nded Prerequisites/Co-requisites: A	, and synthetic hishingprocesses	Hours: Materials F This class k employed potters who on probler	DECORATIVE CERAMICS 1 Lecture/Discussion 3 Lab ee: \$20.00 s an overview of various ma by production potters, with er eel, mold making and slip cas n-solving and involvement w ormerly ART 54a-b.	mphasis on use of the ting. Major emphasis
Hours: The theory practice in watercolor	WATERCOLOR PAINTING 2 Lab 2 Activity and techniques of watercolor p still life landscape and other subj media. nded Prerequisites: Art 6, Art 8.	2 UNITS Dainting. Studio ect matter using	Selected e for art mo	iNTRODUCTORY CRAFTS 2 Lecture/Discussion 3 Lab ee: \$20.00 xperiences from various craft a ijors, elementary education des, and anyone interested in g	majors, prospective
Hours: Lecture an styles of ea Can be rep Recomment ART 15 Hours: <u>Materials F</u> A basic co silkscreen, t	STUDIO PAINTING 2 Lecture/Discussion 2 Lab d studio practice in the theory, 1 sel painting. Emphasis on oil and o beated for up to 8 units credit. aded Prerequisites: Art 6 and 8. Fo PRINTMAKING 1 Lecture/Discussion 3 Lab <u>ee: \$20,00</u> urse in the use of the following pri- mefal efching, and collagraphs. aded Prerequisite: Art 6. Formerly	acrylic mediums. rmerly Art 15a-d. 2 UNITS ntmaking areas:	agency ar to comp to As well as c shirt design and learn t	ill experience the exciting and tist, taking their commercial li camera-ready, creating exce creating projects like full-color is etc., students will experience to bill the customer. Formerly nded Prerequisites: Art6 and/o	ustrations from layout bilent portfollo pieces. magazine spreads, T- b various agency jobs ART 5a-c.

ART

		· · ·	
ART 104a-	d LETTERING FOR GRAPHICS	3 UNITS	ART 212 PAINTING/PHOTOGRAPHIC
Hours:	2 Lecture/Discussion		REALISM
	2 Lab		Hours: 2 Lecture/Discussion
Manipulai	tion of graphic tools; exampl	es, pencils, pens, ink,	2 Lab Exploration and practice of the historic
	or into the development of p	recise and interesting	use of photography as the subject ar
letter totti	ns. Formerly ART 11a-d.		Beginning and advanced work in oils ar
			ART 60a-d
ART 110	ART STUDY TOUR	1 UNIT	Recommended Prerequisites: Art 6 and
Hours:	20 Lecture/Discussion		
	in art tour course for general stu	idents, the public, and	
	. Participants are expected t		
	e tour by reading pertinent ma		ASTRONOMY
Instructor.	These may include art histo	rical, archaeological	ASTRONOTION
	ical sources as well as more g		
	n/regions being visited. The pu		
	students, first hand, to major		
	sculpture, and architecture). E be based on participation, and		Hours: 3 Lecture/Discussion
	ions. Formerly ART 18.	nea essay ana/or	A survey course covering the basic con
excitta idii	IONS. FOITHEINY ART TO.		and laws of astronomy. Emphasis will be
			moon, sun, and planets; use of astronom
ART	EXHIBITION	2 UNITS	of stellar spectra; properties of the s
111a-b	DESIGN, GALLERY		characteristics of the bodies of our sol
Hours:	1 Lecture/Discussion		and observation sessions acquaint the
	3 Lab		and methods used in acquiring knowled Recommended Prerequisite: Eligible for
	e covers the theory and tec		Completion of Math 53 with a grade of
	ion of art works; the exhibition		on the COS Math Placement Test taken
national p	professional artists' works; and t	he participation in the	which indicates mastery of intermediat
alleniavat			
	projects other than those of wa	rksofart. Formerly ARI	
25a-b.	projects of ner india those of wa	rksofart. Formerly ARI	
	projects of her man those of wa	rksofart. Formerly ARI	
		rksofarf. Formerly ARI 3 UNITS	
25а-р.	•		AUTOMOTIVE MECH
25a-b. ART 1 14	ART PRODUCTION		
25a-b. ART 114 Hours: This cours	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr	3 UNITS eparation of graphic	AUTOMOTIVE MECH
25a-b. ART 114 Hours: This cours design for	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assig	3 UNITS eparation of graphic gnments.	AUTOMOTIVE MECH AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion
25a-b. ART 114 Hours: This cours design for Recomm	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assig ended Prerequisites: Art 6 and	3 UNITS eparation of graphic gnments.	AUTOMOTIVE MECH AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra
25a-b. ART 114 Hours: This cours design for Recomm	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assig	3 UNITS eparation of graphic gnments.	AUTOMOTIVE MECH AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that
25a-b. ART 114 Hours: This cours design for Recomm	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assig ended Prerequisites: Art 6 and	3 UNITS eparation of graphic gnments.	AUTOMOTIVE MECH AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond
25a-b. ART 114 Hours: This cours design for Recomm	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assig ended Prerequisites: Art 6 and	3 UNITS eparation of graphic gnments.	AUTOMOTIVE MECH AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe conc fastener tightening procedures, boit size
25a-b. ART 114 Hours: This cours design for Recommo permission	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assig ended Prereguisites: Art 6 and n of the department.	3 UNITS eparation of graphic gnments. /or Art 8, Art 103 , or by	AUTOMOTIVE MECH AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond
25a-b. ART 114 Hours: This cours design for Recomm	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assig ended Prerequisites: Art 6 and	3 UNITS eparation of graphic gnments.	AUTOMOTIVE MECH AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe conc fastener tightening procedures, boit size
25a-b. ART 114 Hours: This cours design for Recomma permission	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assig ended Prereguisites: Art 6 and n of the department.	3 UNITS eparation of graphic gnments. /or Art 8, Art 103 , or by	AUTOMOTIVE MECH AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe conc fastener tightening procedures, boit size
25a-b. ART 114 Hours: This cours design for Recommon permission ART 174a-b Hours:	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and n of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab	3 UNITS eparation of graphic gnments. /or Art 8, Art 103 , or by	AUTOMOTIVE MECH AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe conc fastener tightening procedures, boit size
25a-b. ART 114 Hours: This cours design for Recommo permission ART 174a-b Hours: CROSS RE	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and n of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b	3 UNITS eparation of graphic gnments. /or Art 8, Art 103 , or by 2 UNITS	AUTOMOTIVE MECH AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boit size fluids and tire construction and care.
25a-b. ART 114 Hours: This cours design for Recommon permission ART 174a-b Hours: CROSS RE Fundame	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and n of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu	3 UNITS eparation of graphic gnments. /or Art 8, Art 103 , or by 2 UNITS	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boitsize fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab
25a-b. ART 114 Hours: This cours design for Recommon permission ART 174a-b Hours: CROSS RE Fundame fashionide	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and n of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu- eals; drawing fashion proportio	3 UNITS eparation of graphic gnments. /or Art 8, Art 103 , or by 2 UNITS ading a study of current ned figures and faces,	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boit size fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab An Introductory course in the automot
25a-b. ART 114 Hours: This cours design for Recomme permission ART 174a-b Hours: CROSS RE Fundame fashion ider rendering	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and a of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu- eals; drawing fashion proportion garment details, fabrics and additional and	3 UNITS eparation of graphic gnments. /or Art 8, Art 103, or by 2 UNITS ading a study of current ned figures and faces, accessories; familiarizing	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boit size fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab An Introductory course in the automod Instruction covers the inspection, testing
25a-b. ART 114 Hours: This cours design for Recomme permission ART 174a-b Hours: CROSS RE Fundame fashionide rendering student without the statement of the statem	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and a of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu- eals; drawing fashion proportion garment details, fabrics and action th fashion publications; preparil	3 UNITS eparation of graphic gnments. /or Art 8, Art 103, or by 2 UNITS dling a study of current ned figures and faces, ccessories; familiarizing ngillustration including	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boit size fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab An Introductory course in the automod Instruction covers the inspection, testing electrical system. The lab portion of the
25a-b. ART 114 Hours: This cours design for Recomme permission ART 174a-b Hours: CROSS RE Fundame fashionida rendering student wi layout, styl	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and n of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu- garment details, fabrics and ad th fashion publications; preparilizing drawings, and matting draving the second seco	3 UNITS eparation of graphic gnments. /or Art 8, Art 103, or by 2 UNITS dling a study of current ned figures and faces, ccessories; familiarizing ngillustration including	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boit size fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab An Introductory course in the automod instruction covers the inspection, testing electrical system. The lab portion of the a service garage type atmosphere wh
25a-b. ART 114 Hours: This cours design for Recomme permission ART 174a-b Hours: CROSS RE Fundame fashionida rendering student wi layout, styl	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and a of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu- eals; drawing fashion proportion garment details, fabrics and action th fashion publications; preparil	3 UNITS eparation of graphic gnments. /or Art 8, Art 103, or by 2 UNITS dling a study of current ned figures and faces, ccessories; familiarizing ngillustration including	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boilt size fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab An Introductory course in the automod instruction covers the inspection, testing electrical system. The lab portion of the a service garage type atmosphere wh to receive as much hands-on experience
25a-b. ART 114 Hours: This cours design for Recomme permission ART 174a-b Hours: CROSS RE Fundame fashionida rendering student wi layout, styl	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and n of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu- garment details, fabrics and ad th fashion publications; preparilizing drawings, and matting draving the second seco	3 UNITS eparation of graphic gnments. /or Art 8, Art 103, or by 2 UNITS dling a study of current ned figures and faces, ccessories; familiarizing ngillustration including	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boit size: fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab An Introductory course in the automod instruction covers the inspection, testing electrical system. The lab portion of the a service garage type atmosphere wh to receive as much hands-on experience AUTO 71.
25a-b. ART 114 Hours: This cours design for Recomme permission ART 174a-b Hours: CROSS RE Fundame fashionida rendering student wi layout, styl	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and n of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu- garment details, fabrics and ad th fashion publications; preparilizing drawings, and matting draving the second seco	3 UNITS eparation of graphic gnments. /or Art 8, Art 103, or by 2 UNITS dling a study of current ned figures and faces, ccessories; familiarizing ngillustration including	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boilt size fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab An Introductory course in the automod instruction covers the inspection, testing electrical system. The lab portion of the a service garage type atmosphere wh to receive as much hands-on experience
25a-b. ART 114 Hours: This cours design for Recomme permission ART 174a-b Hours: CROSS RE Fundame fashionida rendering student wi layout, styl	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and n of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu- garment details, fabrics and ad th fashion publications; preparilizing drawings, and matting draving the second seco	3 UNITS eparation of graphic gnments. /or Art 8, Art 103, or by 2 UNITS dling a study of current ned figures and faces, ccessories; familiarizing ngillustration including	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boit size: fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab An Introductory course in the automod instruction covers the inspection, testing electrical system. The lab portion of the a service garage type atmosphere wh to receive as much hands-on experience AUTO 71.
25a-b. ART 114 Hours: This cours design for Recomme permission ART 174a-b Hours: CROSS RE Fundame fashionida rendering student wi layout, styl	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and n of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu- garment details, fabrics and ad th fashion publications; preparilizing drawings, and matting draving the second seco	3 UNITS eparation of graphic gnments. /or Art 8, Art 103, or by 2 UNITS dling a study of current ned figures and faces, ccessories; familiarizing ngillustration including	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boit size: fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab An Introductory course in the automod instruction covers the inspection, testing electrical system. The lab portion of the a service garage type atmosphere wh to receive as much hands-on experience AUTO 71.
25a-b. ART 114 Hours: This cours design for Recomme permission ART 174a-b Hours: CROSS RE Fundame fashionida rendering student wi layout, styl	ART PRODUCTION 2 Lecture/Discussion 4 Lab e covers the process and pr advertising and editorial assigned ended Prerequisites: Art 6 and n of the department. FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab F: FASH 174a-b ntals of fashion illustration, inclu- garment details, fabrics and ad th fashion publications; preparilizing drawings, and matting draving the second seco	3 UNITS eparation of graphic gnments. /or Art 8, Art 103, or by 2 UNITS dling a study of current ned figures and faces, ccessories; familiarizing ngillustration including	AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion The first course in the automotive progra Auto Mech students. Topics that development of shop skills, safe cond fastener tightening procedures, boit size: fluids and tire construction and care. F AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab An Introductory course in the automod instruction covers the inspection, testing electrical system. The lab portion of the a service garage type atmosphere wh to receive as much hands-on experience AUTO 71.



2 UNITS

ctice of the historical and contemporary as the subject and an aid to painting. nced work in olls and/or acrylics. Formerly

equisites: Art 6 and 8.

ASTRONOMY

DUCTION TO ASTRONOMY **3 UNITS**

/Discussion

ering the basic concepts, theories, history, y. Emphasis will be given to motions of the ets; use of astronomical instruments; study roperties of the stars; planetology and e bodles of our solar system. Laboratory sions acquaint the student with the tools acquiring knowledge about the universe. equisite: Eligible for enrollment in English 1. 53 with a grade of "C" or better or a score icement Test taken within three semesters stery of Intermediate algebra.

MOTIVE MECHANICS

ORK AND SAFETY **1 UNIT** /Discussion

automotive program and is required for all ts. Topics that will be covered are op skills, safe conduct and use of tools, ocedures, boit size selection, use of correct uction and care. Formerly AUTO 70.

TIVE ELECTRICITY /Discussion

4 UNITS

irse in the automotive electrical system. e Inspection, testing and repair of the total e lab portion of the course is conducted in be atmosphere which allows the students ands-on experience as possible. Formerly

equisite: Automotive Mechanics 100.

COURSE DESCRIPTIONS **AUTOMOTIVE MECHANICS AUTOMOTIVE MECHANICS** AUTO 107 ADVANCED AUTO AUTO 102 FUEL AND COOLING SYSTEMS **3 UNITS 3 UNITS** 2 Lecture/Discussion TRANSMISSIONS Hours: 2 Lecture/Discussion 4 Lab Hours: A core course in automotive fuel and cooling systems. Instruction 4 Lab covers the testing and repair of the complete automotive fuel An advanced course in automatic transmission service and system; cooling system operation, testing and repair; emission repair. The student will have already passed the basic course control systems inspection and repair. The student will be and will be ready to deal with today's more sophisticated transmissions. The course is generally directed toward the working with both trainer models and operational units. Formerly Chrysler, Ford, and General Motors automatic overdrive AUTO 72. transmissions. Automatic transaxies are also covered in the Prerequisites: Automotive Mechanics 100 and 101. course of study. Formerly AUTO 77. Recommended Prerequisites: Automotive Mechanics 100, 101, and 106. AUTO 103 AUTOMOTIVE ENGINES **4 UNITS** Hours: 2 Lecture/Discussion 6 Lab instruction in the construction, theory and repair of the AUTO 108 AUTOMOTIVE ENGINE TUNE-UP **5 UNITS** automotive engine. The lab work will require that the student Hours: 3 Lecture/Discussion perform the necessary steps to rebuild an automotive engine. 6 Lab The student will be required to furnish an engine for their lab Instruction in advanced electrical theory, related to the entire work. Formerly AUTO 73. electrical system, transistor ignition and regulation. Transistor Prerequisites: Automotive Mechanics 100 and 101. distributor and alternator overhaul. Tune-up and troubleshooting of the engine and related circuits. Formerly AUTO 78. Recommended Prerequisites: Automotive Mechanics 100 & 101. Automotive Mechanics 102 may be taken concurrently. AUTO 104 AUTOMOTIVE POWER **3 UNITS** TRAIN ANALYSIS 2 Lecture/Discussion Hours: AUTO 109 AIR CONDITION 4 Lab **3 UNITS** A study of the mechanical transmission of power utilized in the AND ACCESSORIES modern automobile and light truck. Study includes clutch Hours: 2 Lecture/Discussion operation and repair; three, four, and five speed transmissions 4 Lab operation and repair; drive shaft, differential and drive axle Instruction in most automotive accessories with emphasis in heating and air conditioning system diagnosis and repair. operation and repair; power steering pump and power steering gear operation and repair. Formerly AUTO 74. Formerly AUTO 79. Recommended Prerequisites: Automotive Mechanics 100 and Recommended Preregulsites: Automotive Mechanics 100 & 101, or employment as an apprentice mechanic. 101. AUTO 105 BRAKES AND ALIGNMENT **3 UNITS** AUTO 113 COMPUTERIZED **3 UNITS** Hours: 2 Lecture/Discussion **ENGINE CONTROL** 4 Lab/Demonstration Hours: 2 Lecture/Discussion Instruction in basic hydraulics, repair and reconditioning of 4 Lab/Demonstration several types of standard and power braking systems. Instruction Instruction in advanced electrical theory related to In alignment, steering geometry and suspension systems. computerized engine controls, trouble-shooting and repair of Formerly AUTO 75. computer control systems on the modern automobile. Prerequisites: Automotive Mechanics 100 and 101. Formerly AUTO 82. Recommended Co-requisite: Auto Mechanics 108. AUTO 106 AUTOMATIC TRANSMISSIONS **4 UNITS** Hours: 2 Lecture/Discussion 6 Lab AUTO 160 BASIC AUTOMOTIVE ELECTRICITY 2 UNITS A study of automatic transmissions and transaxies currently Hours: 2 Lecture/Discussion used in domestic and import automobiles and light trucks. l Lab Instruction in the theory of electricity, magnetism and induction. Study includes torque converter operation and diagnosis; hydraulic system function and diagnosis; planetary gear theory Theory and operation of battery, starting ignition, generating and application. These theories and principles are then put and regulating systems. Overhaul and service of all of the into practice by overhauling specified two and three speed above Items. Formerly AUTO 59. automatic transmissions. Formerly AUTO 76. Recommended Prerequisites: Automotive Mechanics 100 and Automotive Mechanics 101, or employment as an apprentice mechanic.

AUTOMOTIVE MECHANICS

AUTO 161 Hours:	AUTOMOTIVE ENGINE TUNE-UP 2 Lecture/Discussion 1 Lab	2 UNITS	AUTO 168 Hours:	AUTOMOTIVE POWER TRAIN 1 Lecture/Discussion 2 Lab	2 UNITS
to automo	AUTOMOTIVE TRANSMISSIONS 1 Lecture/Discussion 2 Lab 2 Activity	oms as it pertains 2 UNITS	automotiv joints, driv primarily d	2 Activity In theory, servicing, maintenan- e clutches, manual transmission, tra e lines, drive axles and differenti- lesigned to allow already employ neir fields of expertise in automotiv	ansaxles, universal als. This course is red mechanics to
maintenan operation diagnosis; p andprincip three and i 62. AUTO 164 Hours: Instruction	AUTOMOTIVE AIR CONDITIONING 2 Lecture/Discussion 1 Lab 1 automotive heating and air cond diagnosis, and repair. Formerly AU	orque converter n function and n. These theories rhauling specific . Formerly AUTO 2 UNITS ditioning systems	automotiv understan for automo controlled Recomme participan combine	COMPUTER/ELECTRONIC CONTROLLED OPTIONS 2 Lecture/Discussion 1 Lab pgrading and retraining to current e Industry. Provides a learning ding new concepts and skills that co brive technicians due to the integra engine systems. Formerly AUTO 8 anded Prerequisite: It is recomm t have an automotive backgrou students with very little repair on who have had extensive training	environment for are now necessary ation of computer 1a-c. nended that the nd. The class will experience with
covers tes electronic componer course of s Recomme r	AUTOMOTIVE BRAKES 2 Lecture/Discussion	nechanical and ors and support e covered in the	Hours: A nine we course of fuel system course is f ability. The for the co needs. Su should be requireme	AUTOMOTIVE FAMILIARIZATION 2 Lecture/Discussion 1 Lecture/Demonstration bek survey course in automotive study includes batteries, starters, hs, charging systems, brakes, tires or those with minimal mechanica e primary thrust is to teach the stude pried product or service to meet on items as which battery to buy, e changed, and other period ints will be covered. Formerly AUTO te: Must be enrolled into the SUCO	Ignitions systems, and wheels. The Il knowledge and dents how to shop et their Individual how often the oil ic maintenance O 91.
several typ systems. Fr AUTO 167 Hours: Instruction	1 Lab In basic hydraulics, repair and re es of drum brakes, disc brakes, and ormerly AUTO 66. AUTOMOTIVE WHEEL ALIGNMENT AND SERVICE 2 Lecture/Discussion 1 Lab In automotive front wheel align front suspension systems, and wi UTO 67.	d power braking 2 UNITS	in emission student fou test, repla course ofs emissions, of these ur evaluate e Recomme	CLEAN AIR CAR COURSE 4 Lecture/Discussion 2-4 Lab course of study designed to dever a systems maintenance. The course certification by the Bureau of Auto ce or repair automotive emission of tudy includes a summary of the cau the vehicle components designer additional gases, and the test proce- bach component's condition. Forre- anded Prerequisites: Auto 100, 101 ed by a registered automobile re-	e will prepare the components. The uses of automobile d to control each cedure required to nerly AUTO 63a-d. , 102, 108 and 113
198					· · · ·

L

AUTOMOTIVE MECHANICS

BIOLOGY

AUTOMOTIVE MECHANICS

Hours: An introdu technology	PROFESSIONAL TECHNICIAN UPDATE Lecture/Discussion as arranged by instructor action to current and advance to keep automotive technicians the industry. Formerly AUTO 92a-c	up to date on	science mo flow, evolu explore co who have r	FRONTIERS IN BIOLOGY - HONORS 3 Lecture/Discussion 2 Lab 1 Honors Colloquium principles course for transfer students ajors. The principles of homeostasis, g ution, reproduction and ecology of ntemporary topics in biology. Not of eceived credit for Biology 1. Former le: Acceptance into the COS Honor	enetics, energy will be used to pen to students y BIOLOGY 10H.
BIOLOGY	GENERAL ZOOLOGY	5 UNITS		PLANT BIOLOGY	3 UNITS
I Hours:	3 Lecture/Discussion 6 Lab		21 Hours:	3 Lecture/Discussion 2 Lab	
that serves majors (pro blology, blo of the comp the major o organismic, topics prese Mendelian includes Blo	the first of a two course sequence as the introductory year of blok emedicine, predentistry, prepha logyteaching, etc.). The course stud parative anatomy, physiology, and animal phyla. Detailed considero , cellular and organelle levels of org ented include molecular blology, b genetics, ecology, and evolution. (co ology 1, 2, and 103) aded Prerequisite: Completion of co	ogy for blology rmacy, marine ilestheprinciples dembryology of ation is given to anization. Other lochemical and CAN-BIOL SEQ A	nonbiology characteri and nome developm open to stu Formerly Bo	eneral principles course in plant i y major. The principal topics include stics of plants, plant survey, methods nclature, plant structure and functi ent, reproduction and genetics, and udents who have received credit in	ed are: general of classification on, growth and d ecology. (Not Biology 2.)
	emistry (Chem 1 or 20). Blology 103		BIOLOGY 2 Hours:	2 ANIMAL BIOLOGY 3 Lecture/Discussion 2 Lab	3 UNITS
Hours: A biologym cytology, classificatic taxonomy, developed	GENERAL BOTANY 3 Lecture/Discussion 6 Lab morphology, biochemistry, p on, phylogenetic survey, evolutil physiology, and ecology. These for the plant, monera, fungl, and p ls a combination of lecture, labor	lant diversity, on, speclation, o principles are protist kingdoms.	help meet are not life method, ev genetics, activities. for Blology	neral principles course in animal bloid a laboratory requirement for transfe e-science majors. The principles of volution and adaptation, bloenergeti and ecology are emphasized in it is not open to students who have 1. Formerly ZOOLOGY 10. nded Prerequisites: Eligible for Englis	er students who of the scientific cs, homeostasis, class and field received credit
experience Prerequisite Blology 103	 CAN-BIOL SEQ A Includes Biolog One semester of college chemist 	y 1, 2, and 103)	Hours: This survey and mode	5 HUMAN ECOLOGY 3 Lecture/Discussion course covers ecological principles mimpact of human societies as ager pn. Formerly ECOLOGY 1.	
Hours:	3 Lecture/Discussion 3 Lab		BIOLOGY 3	0 HUMAN ANATOMY	4 UNITS
science ma flow, evolu explore cor who have r	rinciples course for transfer students jors. The principles of homeostasis, g tion, reproduction and ecology ntemporary topics in biology. Not c eceived credit for Biology 1. aded Prerequisite: Eligible for Eng 0.	genetics, energy will be used to open to students	Hours: Blology 30 i beginnings to underst systems ap Problem so analysis and for Anatom satisfy the	3 Lecture/Discussion 3 Lab is a general survey course designed student with enough anatomical prine and the basic structure of the hu- pproach based on the histology of lving which utilizes creative thinking, dreasoning as utilized by the internation incal Nomenclature is emphasized. needs of health and life science mo- uman anatomy. Formerly ANATOM	to acquaint the ciples necessary man body. A organs is used. critical thinking, onal Committee This course will ajors requiring a



BIOLOGY 31 HUMAN PHYSIOLOGY Hours: 3 Lecture/Discussion

4 UNITS

3 Lab Biology 31 is a general survey course designed to acquaint the beginning student with enough physiological principles necessary to understand the basic functioning of the human body. In lecture, basic principles of homeostasis, cellular functions, myoneural physiology, internal secretions, circulation, immunity, gas exchange, elimination of wastes, fluid and electrolyte balance and acid-base balance are covered. Demonstration, instrumentation and experiments in the lab cover techniques and procedures involved in cellular physiology, the translocation of material, reflexes and sensations, breathing and various physiological recordings such as EKGs EEGs and EMGs. Formerly PHYSIOLOGY 1.

Prerequisites: Biology 30, General Chemistry, Math at least through Algebra.

BIOLOGY 40 GENERAL MICROBIOLOGY Hours: 3 Lecture/Discussion 3 Lab

4 UNITS

1 UNIT

This is a basic foundation course designed primarily for students entering the health sciences, home economics, and related fields. Depending upon the transfer school, this class also meets the needs of life science majors. This course covers development of the science of microbiology through modern times; anatomy, morphology and physiology of microbes; techniques of cultivation and identification; growth control measures (physical, chemical, chemotherapeutic) plusisolation and disposal techniques for contaminated materials; medical microbiology (disease and infection, host defenses/ immunology, epidemiology and public health measures); water microbiology (treatment, testing, and hazards); food and dairy microbiology (emphasis on safety and sanitation); as well as aspects of industrial microbiology. Attention is given to theory as well as to practical application. Formerly MICROBIOLOGY 1. Recommended Prerequisite: ChemIstry 20 and one college level course in life sciences.

BIOLOGY MATTER, ENERGY 103 AND LIFE

Hours: 18 hr. Lecture course This course applies chemical and physical principles to cellular anatomy and physiology, emphasizing replication, transcription, translation, and the blochemistry of enzymes. Biology 103 meets one hour each day during the first three and one-half

weeks of the semester. Formerly BIOLOGY 15. (CAN-BIOL SEQ A includes Biology 1, 2, and 103)

Prerequisites: One semester of college level chemistry. Biology 103 Is to be taken concurrently with Biology 1.

BIOLOGY

BIOLOGY 230 ANATOMY AND PHYSIOLOGY 4 UNITS Hours: 3 Lecture/Discussion 3 Lab

A survey of human anatomy and physiology designed to develop an understanding of the correlation of the structure and function of the body. The laboratory will consist of microscope work, dissection, experimentation, and demonstrations. This course does NOT satisfy the requirements for entrance into the registered nursing program and is not accepted as a transfer course by most state universities. Formerly BIOLOGY 14.

BUILDING TRADES

BLD TR 104 CARPENTRY (RESIDENTIAL CONSTRUCTION) 3 UNITS Hours: 3 Lecture/Discussion

An introductory lecture course in residential construction that covers various phases of house building as they occur on the job. Pre-Job planning, nomenclature, fasteners, building layout, Insulation and roofing, and proper employee practices are also included. Formerly BLD TR 55A.

Recommended Prerequisite: BLD TR 114 and BLD TR 200 should be taken concurrently.

BLD TR 105 CARPENTRY (RESIDENTIAL CONSTRUCTION) Hours: 3 Lecture/Discussion

The second course in residential construction that covers various phases of house building as they occur on the job. Dry-wall, interior finish work, exterior finish work, and proper employee practices are included. Formerly BLD TR 55B.

Recommended Prerequisites: BLD TR 104.

BLD TR 108 ADV CARPENTRY ROOF FRAMING Hours: 2 Lecture/Discussion 4 Lab

3 UNITS

3 UNITS

A study of the fundamental concepts, principles and applications of roof framing covering the many phases of: roof design, planning and estimating, safety, use of materials, trade nomenclature, the identification of, proper use of, and maintenance of the hand tools and power tools used in the construction of the cut and stack type of roofs. The student will study the techniques of laying out and cutting the various kinds of roofs. Formerly BLD TR 56A.

Recommended Prerequisites: Bldg. Trades 104, 105, 114, 115, 299 or 201; trade experience; or permission of the department.

BUILDING TRADES

BLD TR 109 ADV CARPENTRY STAIR BUILDING, ESTIMATING, LOT **DESCRIPTIONS** 2 Lecture/Discussion Hours:

4 Lab

A study of the fundamental concepts, principles, and applications of stair building, estimating, and lot descriptions. The student will study the techniques of layout out and cutting various kinds of stairs, the various methods of estimating, and Investigate the ways property is laid and out and numbered in the state of California. Formerly BLD TR 56B.

BLD TR 114 CARPENTRY

4 UNITS

3 UNITS

(PROJECT HOUSE CONSTRUCTION) Hours: 2 Lecture/Discussion 6 Lab

The first class in the Building Trades program that provides hands-on learning through the process of constructing a house. The student will participate in the construction of a house including building layout, construction of foundation floor, wall, celling and roof systems, roofing, plumbing, insulating and window installation. Formerly BLD TR 75A.

Recommended Prerequisite/Corequisite: Building Trades 104 and 200 should be taken concurrently.

4 UNITS BLD TR 115 CARPENTRY (PROJECT HOUSE CONSTRUCTION) 2 Lecture/Discussion Hours:

6 Lab

The second class in the Bullding Trades program that provides hands-on learning through the process of constructing a house. The student will participate in the construction of a house including dry-wall installation, taping and texturing, interior finish carpentry, exterior finish carpentry, painting and finish plumbing. Hand and power tools are provided, although the students are required to provide their own nail bags and tape measures. Formerly BLD TR 75B.

Recommended Prerequisites: BLD TR 104, 200, 114, 105 and 201. BLD TR 105 and 201 are normally taken concurrently.

BLD TR 118 CARPENTRY

4 UNITS

(PROJECT HOUSE CONSTRUCTION) **3 Lecture/Discussion** Hours: 3 Lab

The third project house class, this an advanced study of house construction, covering the many phases of, safety, the layout and construction of the foundation, underpinning, floor joists and subfloor, plates and walls, ceiling joist, rafters, and the different kinds of roof covering. Also included in the course of study is, the use of materials and trade nomenclature. Formerly BLD TR 76.

Recommended Prerequisites/Corequisite: Building Trades 104, 105, 114, 115, 200, and 201 or by permission of the department.

BUILDING TRADES

BLD TR 119 CARPENTRY (PROJECT HOUSE CONSTRUCTION) 3 Lecture/Discussion Hours:

3 Lab The fourth project house class, this an advanced study of house

construction, covering the many phases of safety, the layout and installation of drywall including taping and texturing. Finish carpentry such as hanging doors, jambs, casing, base boards and windows. Apply the exterior finish and trim. Also Included In the course of study is the use of materials and trade nomenclature. Formerly BLD TR 76B.

Recommended Prerequisites/Corequisite: Building Trades 104, 105, 114, 115, 200, and 201 or by permission of the department.

BLD TR 130 BLUEPRINT

3 UNITS READING, RESIDENTIAL CONSTRUCTION

3 UNITS

3 UNITS

4 UNITS

Hours: 3 Lecture/Discussion A study of the fundamental concepts, principles and applications of blueprint reading. The student will learn the basic fundamentals of reading and interpreting building plans and specifications. It is of great value to the person pursuing a career in drafting, construction inspection, real estate, or as a maintenance engineer. Formerly BLD TR 53A.

BLD TR 134 RESIDENTIAL

CONSTRUCTION ESTIMATING 3 Lecture/Discussion Hours:

A study of the fundamental concepts, principles, and applications covering the many phases of residential construction estimating. Such items as cost, materials, quality of materials, materials take off, and trade nomenclature will be discussed and studied for each phase of estimating. Formerly BLD TR 54A.

Recommended Preregulsites: Other Building Trades classes offered by C.O.S.; working knowledge of the construction trade: permission of the department.

BLD TR 138 CONTRACTORS LICENSE LAW

3 Lecture/Discussion

Hours: A study of the fundamental concepts, principles, and applications of construction laws, llen laws, safety, and business laws concerning the construction industry. Building Trades 138 is designed for the individual interested in taking the California State examination for the General Contractors (B) License, or the Specialty Contractors (C) License, or for the student interested in the laws governing the construction trade. Formerly BLD TR 59.

Recommended Prerequisites: BLDTR experience or permission of the department.

BUILDING TRADES

BLD TR 150 CABINETMAKING AND MILLWORK 4 Lecture/Discussion

2 Lab

Hours:

A study of the fundamental concepts, principles, and applications of cabinetmaking and mill work covering many phases of cabinet design, safety, use of materials, cabinet draffing and sketching, planning and estimating, trade nomenclature, theory of cabinet construction, and methods of layout. Formerly BLD TR 77A.

Recommended Prerequisites/Corequisite: Building Trades 104, 105, 114, 115, 200, and 201 or by permission of the department.

BLD TR 151 CABINETMAKING AND MILLWORK Hours: 4 Lecture/Discussion

2 Lab

4 UNITS

4 UNITS

A study of the fundamental concepts, principles, and applications of cabinetmaking and millwork covering the many phases of cabinet design, safety, use of materials, cabinet hardware, glues, clamps, trade nomenclature, cabinet construction, methods of layout, counter tops, and the installing of cabinets and tops. Formerly BLD TR 77B.

Recommended Prerequisites/Corequisite: Building Trades 104, 105, 114, 115, 200, and 201 or by permission of the department.

BLD TR 160 CABINETMAKING 3 UNITS AND MILLWORK LAB 2 Lecture/Discussion Hours: 4 Lab

Materials Fee: \$5.00

A study of the fundamental concepts, principles, and applications of cabinetmaking and millwork covering the many phases of: tool and machine safety, the identification of, properuse of, and maintenance of, the hand tools, power tools and machines used in the cabinet shop. The students will study woodworking techniques, cabinet and milling drawing details, various methods of layout, and construction of the project house millwork. Formerly BLD TR 78A.

Recommended Prerequisites/Corequisite: Building Trades 104, 105, 114, 115, 200, and 201 or by permission of the department.

BLD TR 161	CABINETMAKING	3 UNITS
	AND MILLWORK LAB	
Hours:	2 Lecture/Discussion	
÷	4 Lab	

A study of the fundamental concepts, principles, and applications of cabinetmaking and millwork covering the many phases of: tool and machine safety, Identification of hand tools, hand power tools and machines used in the cabinet shop, properuse of hand tools, hand power tools, and machines, tool and machine maintenance, woodworking construction, cabinet and milling details and drawings and various methods of layout, and construction of project house cabinets. Formerly BLD TR 78B.

Recommended Prereguisites/Coreguisite: Building Trades 104, 105, 114, 115, 150, 151, 200, and 201 or by permission of the department.

BUILDING TRADES

BLDG CABINETMAKING TR 162 AND MILLWORK LAB Hours: 5 Lecture/Discussion 11 Lab

3 UNITS

2 UNITS

2 UNITS

(Six week course)

This course includes study of the fundamentals, concepts, principles and applications of cabinetmaking and miliwork covering: tool and machine safety, Identification of hand tools, hand power tools and machines used in the cabinet shop, properuse of handtools, hand power tools and machines, tool and machine maintenance, woodworking construction, cabinet and milling details and drawings, various methods of layout and the construction of cabinets. Formerly BLD TR 78C.

BLD TR 176 BUILDING SUPERVISION 3 UNITS AND INSPECTION—ARCHITECTURE Hours: **3 Lecture/Discussion**

A one semester course designed to meet the needs of persons engaged in the supervision and inspection of buildings under construction, emphasizing the study of engineering symbols and use of model codes together with the mathematics necessary to Interpret plans and specifications for building inspection and project supervision. Formerly BLD TR 83. Recommended Prerequisites: BLDTR; those engaged in building

inspection; those engaged in the construction industry or consent of the department.

BLD MULTIPLE **TR 180 RESIDENTIAL FIRE SPRINKLERS** Hours: 1.5 Lecture/Discussion 1 Lab

Building Trades 180 trains and educates the student to inspect and/or design fire sprinkler systems for homes, apartments and motels. The course is for sprinkler contractors, fire inspectors and building inspectors and interested home owners. The course requires one and one-half hours per week of lectures with extensive class participation. One hour per week will be used to layout and design fire sprinkler systems. At least two hours per week will be required to fulfill homework assignments. Formerly BLD TR 83.

BLD TR 200	DRAWING FOR BUILDING CONSTRUCTION
Hours:	2 Lecture/Discussion
	2 Lab
A required	four (4) hour per week practica

al course in drawing for the building trades. The fundamentals of architectural drafting, blueprint reading, details, symbols, codes and specifications are covered. The floor and foundation plans for the Project House are developed in this class. Formerly BLD TR 51A.

Recommended Prerequisites: BLDTR 104 and BLDTR 114 (usually taken concurrently).

Course descriptions

BUSINESS

BUILDING TRADES

BLD TR 201 DRAWING FOR

2 UNITS

THE BUILDING TRADES 2 Lecture/Discussion Hours: 2 Lab

A required course in drawing for all building trades students. The fundamentals of architectural drafting, blueprint reading, details, symbols, codes and specifications are covered. The ceiling framing plan, roof framing plan, sections, elevations, and electrical plans for the Project House are developed in this course. Formerly BLD TR 51B.

Recommended Prerequisites: BLD TR 104, 105, 114, 115 and 200. BLD TR 101 and 115 are normally taken concurrently.

BUSINESS

BUS 18 BUSINESS LAW Hours: 4 Lecture/Discussion

A survey of the principles of business law with particular emphasis given to legal environment, contracts and agency. Students are given guidelines for making a contract for an A and/or B grade. Students experience how preparing and simulating court cases show both sides of the dispute and how such disputes relate to every day business problems. This, or a similar course in legal principles, is required by most four year colleges for a major in business administration. It should be recommended for the paralegal student and also as an elective to the liberal arts student. Success in the course will, to a great degree, depend upon a student's reading, writing, and verbal skills. (CAN-BUS 8)

BUS 20 BUSINESS STATISTICS Hours: **3 Lecture/Discussion**

3 UNITS

This is an introductory course in elementary statistics and probability for business administration majors. The course content includes graphic presentation of data, measures of central tendency and dispersion, times series analysis, index numbers, sampling and sampling techniques, tests of hypothesis, probability distributions including the binomial hypergeometric, polsson, and normal distributions, and simple linear regression and correlation analysis.

Recommended prerequisite: Two years of high school Algebra or completion of Math 230.

QUANTITATIVE METHODS **BUS 119** Hours: **3 Lecture/Discussion**

3 UNITS

This is an introductory course in quantitative methods for Business Administration majors. The course is designed to develop an appreciation of the value of quantitative methods in decision making. Formerly BUS 19.

Recommended Prerequisites: Two years of high school Algebra or completion of Math 230.

BUS 127 INVESTMENTS

Hours: 3 Lecture/Discussion

Students will become acquainted with alternative investments such as savings, stocks, bonds, mortgages, and other securities, mutual funds, credit unions, banks, real estate investment, trusts, insurance, portfolio management, and the operations of

3 Units

1 UNIT

1 UNIT

the financial markets. Formerly BUS 27. Recommended Prerequisite: Score equal to English 251 on the COS Placement Test.

BUS 138 **LEADERSHIP TRAINING 1** 1 Lecture/Discussion Hours: **CROSS REF: Leadership Training 101**

This class is offered to give students leadership training and is one of a sequence of classes designed to prepare them for leadership roles. Students learn to write Measurable Learning Objectives, which is a means of establishing a plan of action leading to self-Improvement and provides and understanding of how to maximize learning opportunities on the job. Coverage

of the organizational structure, the development of management thought, styles of leadership, discipline, communications, and the evaluation process provide a framework for the understanding of the responsibilities of a leader.

BUS 139 LEADERSHIP TRAINING II Hours: 1 Lecture/Discussion **CROSS REF: Leadership Training 102**

This class builds on Leadership Training 1. Students Interested In advancing into leadership positions will be instructed in problem solving techniques, which will be presented through lecture and case problem analysis. The presentation of motivation theories and a behavior modification project will add to the understanding of tools available to the leader to accomplish organizational goals. Methods of bringing about change in organizations and a presentation of authority, power, and influence are integral parts of leadership coverage. Students will be instructed on how to present the best image in a job interview and each will be taken through the process of preparing or updating their working papers. Recommended Preregulaites: Bus 138

BUS 150 ELEMENTARY SHORTHAND Hours: 5 Lecture/Discussion

5 UNITS

Business 150 is a beginning symbol shorthand class covering the theory and technique of Gregg of Century 21 shorthand. The recommended prerequisites of a score equal to English 251 on the placement test and a keyboarding skill of 30 cwpm are essential if one is to be successful. Students will learn all the theory of the shorthand system, speed building, autonomization of brief forms and the application of the theory, Formerly BUS

Prere'quisites: Score equal to English 251 on the placement test and a keyboarding speed of 30 cwpm.

4 UNITS

BUSINESS

BUS 151 ADVANCED SHORTHAND 5 UNITS Hours: 5 Lecture/Discussion 5 UNITS

Business 151 is the second semester shorthand course where emphasis is placed on the skills necessary to use shorthand in the office. In addition to shorthand theory, the class covers transcription skills, speed building and vocabulary enlargement. Formerly BUS 51.

Prerequisites: Completion of Business 150 with a grade of "C" or better; or completion of a one or two-year high school shorthand curriculum with a grade of "C" or better. Keyboarding speed of 40 cwpm. Score equal to English 251 on the placement test.

BUS 160 BEGINNING KEYBOARDING 3 UNITS Hours: 2 Lecture/Discussion 3 Lab

Business 160 is a beginning keyboarding course covering touch typing, formatting letters, reports and tables. Students are expected to develop speed and accuracy on production work and timings. Formerly BUS 60.

BUS 161	INTERMEDIATE KEYBOARDING	3 UNITS
Hours:	2 Lecture/Discussion	
	lab	

Business 161 is an intermediate course with emphasis on business correspondence, forms, tables, manuscripts, and production typing. The student will review the fundamentals of typewriting and will strive to improve his/her speed and accuracy, not only on straight copy materials, but on forms and letters as well. Formerly BUS 61A.

Recommended Prerequisite: Business 160 or one year of previous typing instruction.

BUS 162	ADVANCED KEYBOARDING	3 UNITS
Hours:	2 Lecture/Discussion	
	3 lab	

Business 162 is an advanced keyboarding class which allows the student to demonstrate his/her proficiency in the application and knowledge of business situations be able to key problems in various letter or table styles, verify information or look it up in the instructions within an acceptable time frame. Provides an opportunity to demonstrate speed and accuracy as well as his/her understanding of typical office problems such as keyboarding letters, legal documents, manuscripts, and business forms. They are given experience in various types of office assignments including general offices, medical offices, legal offices, government, and financial offices. Formerly BUS 618. **Recommended Prerequisites:** Business 161 or its equivalent: Satisfactory keyboarding speed of 40 cwpm.

BUSINESS

BUS 166 PROFESSIONAL EMPLOYMENT 3 UNITS PREPARATION

Hours: 3 Lecture/Discussion

This course is designed to increase the student's understanding of researching Jobs and organizations, employment interviewing, getting a Job, professional development including communication skills by presenting theories, techniques, and principles behind these skills. Students will develop a personal portfolio. Formerly BUS 66.

Prerequisite: English 251 or Business English 184 recommended.

BUS 170 RETAIL SALESMANSHIP 3 UNITS Hours: 3 Lecture/Discussion 3

A practical course in retail sales principles and practices which emphasizes career opportunities, the current market environment, contemporary sales, techniques and the sales promotion. Open to all students considering permanent or part time retail sales positions. Required for marketing certificate, and the A.A./A.S. degrees in marketing, general business/ clerical skills, and home economics fashion merchandising majors. Formerly BUS 70.

Recommended Prerequisite: English 251 score on the placement test.

BUS 171 APPLIED PROFESSIONAL 3 UNITS SALESMANSHIP

Hours: 3 Lecture/Discussion

An examination, study, and analysis of general and individual factors and applied techniques which influence persons toward buying goods and services. The selling process is scientifically observed and implemented. Formerly BUS 71.

BUS 182 INTRODUCTION TO BUSINESS 3 UNITS Hours: 3 Lecture/Discussion 3 UNITS

Business 182 is an introductory course which examines the business enterprise. The course covers a wide range of topics which include social responsibility and business ethics; business organization and functions; the historical, environmental and economic setting of business; the human resource; the structure of American business; and management of business. For the business major, this course assists him/her in choosing an area of specialization and an orientation to the business administration field. For other students, this course will show them how the business system affects them in their role as wage earner or consumer. Formerly BUS 92.

Recommended Prerequisite: Score equal to English 251 on the placement test.

BUS 184 BUSINESS COMMUNICATIONS 3 UNITS Hours: 3 Lecture/Discussion 3 UNITS

The student entering this course should be proficient in English grammar. The course is designed to improve the student's communication skills. Written work will be done on personal computers using wordprocessing software so that rewrites can be done easily. Formerly BUS 96B.

Recommended Prerequisites: English 1 score on the placement test or as "C" grade in either English 251 or Business 293,

BUSINESS

BUS 188 HUMAN RELATIONS **3 UNITS** IN BUSINESS

3 Lecture/Discussion Hours:

Students will become acquainted with those accepted patterns of behavior and performance standards which will enhance their skills in the workplace. The student learner will be exposed to management techniques applicable in his/her business, domestic, personal, and social life. Discussion and classroom material explores possible problems and solutions in management and employee relationships. Formerly BUS 98. Recommended Prerequisite: English 251.

BUS 256 MEDICAL TERMINOLOGY Hours: **3 Lecture/Discussion**

3 UNITS

The course is designed to provide a foundation for the understanding of medical terminology using simple, nontechnical explanations of medical terms. The fundamentals of word analysis are explained to make the understanding of complex terminology easler. Formerly BUS 56.

Recommended Prerequisite: A score equal to English 251 on the COS Placement Test.

BUS 258 OFFICE PROCEDURES Hours **3 Lecture/Discussion**

3 UNITS

This course will acquaint the students with the secretarial world and help them decide if these are the areas of expertise they wish to pursue throughout their working career. The subject matter covers a broad spectrum of the duties of a clerical worker including composition, telephone techniques, selection of equipment, procedures, grooming, and human relations. It prepares the student for initial office jobs and lays the foundation for job growth, Formerly BUS 58A.

Recommended Prerequisites: Business 161 or its equivalent: Satisfactory keyboarding of 30 cwpm.

BUS 259 RECORDS MANAGEMENT Hours: 2 Lecture/Discussion

2 UNITS

A business management course presenting a guick overview of the opportunities in the field of filing, the methods for processing, storing, retrieving, and restoring the various kinds of records that businesses must keep. The operation of the most commonly used filing systems and methods are presented. This course is recommended for all business majors. . Formerly BUS 59.

BUS 260 CAREER DRESSING 2 Lecture/ Discussion Hours: CROSS REF: Fash 260

1 UNIT

test.

Designed for students who want to update, enhance, and Improve their career appearance. Specific methods for the selection of clothing and accessories suitable for the working environment are presented. Excellent preparation for all students desiring to make the right impression for interviews and career changes. Formerly BUS 58B.

BUSINESS

BUS 268 ELECTRONIC CALCULATING Hours: 1 Lecture/Discussion

2 UNITS

2 UNITS

2 Lab

This course introduces the student to the electronic calculator, develops the touch method, builds speed in using the calculator, reviews the principles of arithmetic, and transfers the skills to the solution of business problems. Formerly BUS 68,

Recommended Prerequisite: Business 395,1 If the student has not recently had a course in arithmetic, or It may be taken concurrently.

BUS 269 **MACHINE TRANSCRIPTION** Hours: 2 Lecture/Discussion ligh

Machine transcription is a skill course where the student must be able to type, punctuate, format and spell the material that he/she transcribes from taped dictation. Proficiency requires a working knowledge of basic English skills. Upon satisfactory completion the student would be able to transcribe at a rate of 40 to 50 correct words a minute. Formerly BUS 69.

Recommended Prerequisite: Typing 40 cwpm or concurrent enrollment in Business 161; Business 293 or English 251.

BUS 274 MARKETING PRINCIPLES **3 UNITS** Hours: 3 Lecture/Discussion

This course provides basic understanding of marketing principles as well as training and experience in planning, producing, storing, promotion, selling and distribution of commodities.

BUS 282 INDIVIDUAL INCOME TAX **5 UNITS** Hours: 5 Lecture/Discussion Materials Fee: \$5.00

A study of the Federal and California income tax laws that apply to the Individual taxpayer(s), the application of the laws by computation of various practical problems and the completion of forms required by the Internal Revenue Service and the California State Franchise Tax Board. The requirements for becoming a licensed tax preparer and the rules and regulations governing licensed tax preparers. This course may be taken for personal use, but is primarily designed for the vocational student; to orient the student toward working with these problems in an accounting office, a financial institution, an enrolled agent's office, the Internal Revenue Service, the California State Franchise Tax Board, a state licensed tax preparer's office or in their own office as a California state licensed tax preparer. Formerly BUS 82.

BUS 293 **BUSINESS ENGLISH** Hours: 3 Lecture/Discussion

3 UNITS

Business 293 Is a lecture/discussion class which is designed to help the business student become more proficient in, and therefore more comfortable with, the use of the English language. It provides a complete review of and practice in using the fundamental of English grammar: the parts of speech, spelling, sentence structure, punctuation, and vocabulary building. Students review the concepts and then are expected to use them in written assignments. Formerly BUS 96A. **Recommended Prerequisites:** English score on the placement

BUSINESS

BUS 295 BUSINESS MATHEMATICS 3 UNITS 3 Lecture/Discussion Hours:

A broad course designed toward student development of skills and analysis of business computation of percents, discounts, markups, financing on long and short-term loans. included is the study of APR (Annual Percentage Rate), the Metric System of Measurements and probability, as well as some applied use of algebra in solving equations dealing with ratio and percents. Recommended Prerequisite: Completion of BUS 395 with a grade of "C" or better or a successful score on the C.O.S. Math Placement Test taken within three semesters. Formerly BUS 95B.

BUS 297 **PERSONAL FINANCE 3 UNITS 3 Lecture/Discussion** Hours:

In this general education course open to both business and nonbusiness majors, students gain knowledge of personal income and expenditures. To be discussed are such topics as savings accounts; investments; borrowing money; budgets, charge accounts and Installment buying; property, income, estate inheritance and gift taxes; life, health, accident, property, and miscellaneous insurance; pension plans and social security; trust funds and wills: inflation and business cycles: and problems of owning a house. Formerly BUS 97.

BUS 350 CAREER/LIFE PERCEPTIONS 1 UNIT 1 Lecture/Discussion Hours:

This credit/no credit course is one of a series of courses designed to help students develop competence and confidence necessary for successful college study in both academic, vocational and avocational courses. Students MUST be enrolled In Program SUCCESS. Formerly BUS 150.

Prerequisites: Must be enrolled in SUCCESS Program.

ELEMENTARY KEYBOARDING BUS 360 1 UNIT Hours: 9 Lecture/Discussion 17 Lab

An introductory course covering basic keyboarding skills necessary for using a typewriter or computer keyboard by touch. Emphasis is placed on technique accuracy, terminology, and achieving a minimum skill level of 20 cwpm. Formerly BUS 63.

REVIEW OF ARITHMETIC BUS 395 3 UNITS FOR BUSINESS 3 Lecture/Discussion Hours:

This course is designed to review the four functions of addition, subtraction, multiplication and division of whole numbers and fractions with emphasis on application to the discipline of business. Time is provided to analyze arithmetic logic rather than memorizing problem-solving skills among an infinite number of business problem situations and to promote reasonable judgment for evaluating outcomes with a sound degree of personal security. Formerly BUS 95A.



5 UNITS

CHEM 1 **GENERAL CHEMISTRY** Hours: 6 Lab

3 Lecture/Discussion

A study of the fundamental theories and laws of chemistry with an emphasis on the mathematical treatment as well as the underlying concepts and principles. This course includes six hours of laboratory per week. Chemistry 1 is designed for those intending to enter chemistry or professional fields requiring: chemistry as a foundation. Topics include stoichlometry, atomic structure, bonding theories, ionic reactions, and properties of gases. Formerly CHEM 1A. (CAN-CHEM 2)

Prerequisite: A previous chemistry course, Algebra II or Math 230, and an acceptable score on the department diagnostic exam.

GENERAL CHEMISTRY 5 UNITS CHEM 2 Hours: **3 Lecture/Discussion** 6 Lab

This course studies the fundamental theories and laws of chemistry with an emphasis on the mathematical treatment of chemistry as well as the underlying concepts of principles. Thermodynamics, kinetics, acid-base theory, ionic equilibria, and redox phenomena are covered. Nuclear chemistry and a brief introduction to organic chemistry may be included. Formerly CHEM 1B. (CAN-CHEM 4)

Prerequisite: Chemistry 1 with a grade of "C" or better.

CHEM 5 **ANALYTICAL CHEMISTRY 5 UNITS** Hours: 3 Lecture/Discussion 6 Lab

Fundamental principles and methods of quantitative analysis with a theoretical treatment of the laws and theories which apply. For students Interested In medicine, chemistry, clinical work, petroleum, or chemical industries.

Prerequisite: Chemistry 2 with a grade of "C" or better.

ORGANIC CHEMISTRY 5 UNITS CHEM 12 Hours: 3 Lecture/Discussion 6 Lab

This is the first semester of a comprehensive study of organic chemistry. This course, taught at the sophomore level, is primarily for chemistry or biochemistry majors, premedical, predental students, and medical technicians. Emphasis is on structural and functional groups chemistry studied from a synthetic and mechanistic point of view. Topics include: nomenclature, stereochemistry, free radical processes, Introductory infrared and nuclear magnetic resonance spectroscopy. Formerly CHEM 12A.

Prerequisites: Chemistry 1-2 or 20-21 with a grade of "C" or better.

CHEMISTRY

CHEM 13 **ORGANIC CHEMISTRY** 3 Lecture/Discussion Hours: 6 Lab

5 UNITS

This is a continuation of Chem 12, a comprehensive study of organic chemistry. The course, taught at a sophomore level, is primarily for chemistry, biochemistry majors, premedical, predental students, and medical technicians. Emphasis is on structural and functional group chemistry studied from a synthetic and mechanistic point of view. Topics include: reactions of aromatic compounds, condensations, natural products chemistry, introductory biochemistry, mass spectrometry and ultraviolet/visible spectroscopy. Formerly CHEM 12B.

Prerequisite: Chem 12 with a grade of "C" or better.

CHEM 20 **GENERAL CHEMISTRY 4 UNITS** Hours: 3 Lecture/Discussion 3 Lab

A study of the fundamental theories and the laws of chemistry including such topics as the metric system, three states of matter, nomenclature and oxidation-reduction, stoichlometry, water and liquids, gas laws and concentrations of solutions, acid-base theory, and Ionic equilibria.

Prerequisites: Eligibility for Intermediate Algebra (Math 230) as determined by COS mathematics placement procedures. Formerly CHEM 2A. (CAN-CHEM 6)

GENERAL ORGANIC 4 UNITS CHEM 21 AND BIOLOGICAL CHEMISTRY Hours: 3 Lecture/Discussion 3 Lab

Introduction of the basic concepts, nomenclature and reaction of organic and blochemical compounds, including hydrocarbons, alcohols, ethers, carbonyl compounds, amines, their derivatives, and carbohydrates, lipids, amino acids, and proteins. Chemistry 21 is the second semester of a full-year college chemistry course designed to meet the needs of the science related or non-science major (e.g. agriculture, nursing, home economics, physical therapy). Formerly CHEM 2C. Prerequisite: Completion of Chemistry 20 with a grade of "C" or better.

CHEM 353	SURVEY OF INTRODUCTORY	3 UNITS
	CHEMISTRY	
Hours:	3 Lecture/Discussion	
	2 Lab	

This is a one-semester elementary chemistry class recommended for students who have never taken high school chemistry or whose previous work in chemistry did not adequately prepare them for Chem 20 or Chem 1. Basic algebraic manipulations are frequently used. Focus is on: the use of the metric system, basic atomic theory, chemical bonding, chemical nomenclature, equation writing, introduction to the gas laws and stoichlometry. Formerly CHEM 53.

Prerequisites: Since this course starts with elementary algebraic manipulationsitisrecommended that beginning algebra (Math 210 and 215) or high school algebra) be successfully competed prior to enrolling in Chem 353.

CHILD DEVELOPMENT

3 UNITS

CHID **CHILD DEVELOPMENT DEV 39** Hours: 3 Lecture/Discussion

CROSS REF: Psychology 39

This course traces child development utilizing basic theories such as Plaget, Erikson, and Kolberg. Current research is reviewed and discussed. Study concentrates on normal development from prenatal through adolescence. Students will be required to do observation of children and to write child studies, media critiques and essay exams. Formerly ECE 39. (CAN-HEC 14)

CHLD CHILD, FAMILY AND SOCIETY **3 UNITS DEV 42**

Hours: 3 Lecture/Discussion

A study of the effects of the family and the society on the young child. Content includes family functions, structures and roles; societal influences; community resources; special needs groups. Formerly ECE 41.

CHLD DEV 134	CHILD ABUSE	2 UNITS
Hours:	2 Lecture/Discussion	

(18 Hour course)

A study of child abuse that will include causes, detection, reporting, treatment and prevention, as well as prosecution assistance. The California Social Services, mental health, child care education, and judicial system roles relating to child abuse will be examined. Formerly ECE 35.

CHLD	MUSIC EXPERIENCES IN	1 UNIT
DEV 135	EARLY CHILDHOOD	
	EDUCATION	
Hours:	3 Lecture/Discussion	
	(18 hour course)	
This course	investigates various methods	s of utilizing musica

experiences in the curriculum such as songs and fingerplays for different themes, activities and seasons; using and creating musical instruments. Appropriate for teachers, aides, care providers, parents and others who want to enhance children's musical knowledge and experience. Formerly ECE 37A.

CHLD **CHILDREN'S LITERATURE DEV 136** Hours:

1 UNIT

3 Lecture/Discussion (18 hour course)

This course includes selection of appropriate literature for various ages of children, successful methods of presenting literature of various types and storytelling techniques. Appropriate for teachers, aides, care providers, parents and others interested in selecting literature for children. Formerly ECE 37B.

CHILD DEVELOPMENT

		I		OTTILD DEVELO	
experience develop r developm Appropriat	SCIENCE EXPERIENCES IN EARLY CHILDHOOD EDUCATION 3 Lecture/Discussion (18 hour course) nvestigates various methods of inter so into the early childhood curriculur materials and methods approp ent of the child and his/her u e for teachers aides, care provide ested in enhancing the child's science CE 37C.	m. Students will priate for the nderstanding. rs, parents and	childhood staff inservi and accre licensed ct Recomme	education programs, Incl ce, programs, parent ar ditation. Fulfills the state r nild care centers. nded Prerequisites : Form	nistration of quality early uding time management, ad staff handbooks, grant equirement for directors in
the needs mental, so Togetherwite aching. school, The	PRINCIPLES OF EARLY CHILDHOOD EDUCATION 2 Lecture/Discussion 4 Lab Includes the study of early childhood of the preschool child as related to clal, emotional and creative grow th Child Dev. 140lt prepares the stude The lab consists of supervised work in the Children's Learning Center, or in es. Formerly ECE 40A.	to the physical, th of the child, ant for classroom in the C.O.S. lab	techniques children fra is focused guidance,	for those who influence t m parents to child care p on communication, p	3 UNITS of parenting and guidance he development of young oviders to teachers. Study problem solving, positive ng and needs of young
CHLD DEV 141 Hours: This studen range of ec develop ar	PRACTICE IN EARLY CHILDHOOD EDUCATION 2 Lecture/Discussion 4 Lab t teaching course includes the stu ariy childhood programs, and require and utilize a self-designed curriculum v tental, social, emotional and creati	es the student to which meets the	and disting unique po education teacher's r	tive problems of excep atterns of developme al environment is studied,	3 UNITS nabout the characteristics bitonal children and their nt. Adaptation of the as well as the family's and ied with emphasis on early ears. Formerly ECE 45.
preschool school, the campus sli presentatic classroom Recommer	child. Included in the lab experience e Children's Learning Center, or in tes, is the presentation of 13 curr ons and one laboratory session in as the teacher. Formerly ECE 408, aded Prerequisite: Child Dev. 140 or ea red with area high schools.	ce at C.O.S. lab approved off- iculum activity charge of the	Course Inc nutrition, co developm learning, s	ludes the areas of social, ognitive/motor developm ent, socializing among	3 UNITS eas of the infant/toddler. /emotional development, .ent, limit setting, language children, and play and orking knowledge to assist CE 46.
children w preschoold planning, d keeping, le parents and for director	ADMINISTRATION OF EARLY CHILDHOOD EDUCATION 3 Lecture/Discussion /ill study the tasks of administering /ith special emphasis on the mi- anddaycare programs. The course in organization, budgeting, personne gal requirements and relationships v dregulatory agencies. It fulfills the sta is in licensed child care centers. Fo nded Prerequisite: Child Dev. 140 and experience.	anagement of cludesprogram I policy, record vith community, ate requirement rmerly ECE 43A.	child. This fully aware children In environme	course enables teachers of their contribution to the their care. Topics includintal safety, foods and r	3 UNITS on as related to the young s and parents to become le overall well-being of the le preventive health care, hutrients, children's health lical procedures. Formerly

CHILD DEVELOPMENT

CHILD DEVELOPMENT

CHILD DEVELOPMENT

	CHILD DEVELOT MENT
CHLD CREATIVE 2 UNITS DEV 149 ACTIVITIES FOR YOUNG CHILDREN Hours: 2 Lecture/Discussion Hours: 2 Lecture/Discussion Itab Materials Fee: \$5.00 Creative Activities is a lecture/lab course in the early childhood education program designed to prepare the student in planning a wide variety of materials for creative activities for use in the integrated thematic early childhood curriculum. Students select, plan and prepare resources for use in the fall semester which include seasonal and holiday themes as well as curriculum areas. Formerly ECE 42A.	CHLDSUPERVISE1-3 UNITSDEV 190a-dPRACTICEHours:3 Lab per unitUnder the supervision of an instructor, selected students assist and direct students in less advanced classes. This course provides experience for students interested in teaching, counseling and other employment or volunteer situation where the student is expected to take a leadership role with others. Formerly ECE 48a-c.Recommended Prerequisite: Department interview.
CHLD CREATIVE 2 UNITS DEV 150 ACTIVITIES FOR YOUNG CHILDREN Hours: 2 Lecture/Discussion Hours: 2 Lecture/Discussion 1 Lab Materials Fee: \$5.00 This course includes the selection, planning and preparation of materials for activities in the Early Childhood Development curriculum. Materialsrelate to a variety of themes with emphasis on the early winter and spring seasons and holidays. Recommended for teachers, education majors (elementary and special), instructional aldes, care providers, parents and others who are interested in planning a variety of creative activities for children. Formerly ECE 428.	CHLD TOPICS IN CHILD 1 UNIT DEV 199 DEVELOPMENT/ EARLY CHILDHOOD EDUCATION Hours: 1 Lecture/Discussion (18 hour course) The application of child development/early childhood education principles to the specific needs of certificated programs, state mandated certification and community interests. Formerly ECE 97a-d.
CHLDSCHOOL-AGE3 UNITSDEV 151CHILD CAREHours:3 Lecture/DiscussionThis course is a study of school-age child care. The contentincludes an overview of the physical, social and cognitivedevelopment of school-age children as well as care programsand community resources. This course investigates a variety ofenrichment activities and curriculum for school-age children,including literature, science, drama, music, physical educationand arts and crafts. It is appropriate for teachers, aldes, familyday care providers, parents, and other Interested in selectingschool-age activities and curriculum. Formerly ECE 34.CHLDFAMILY DAY CAREDEV 156MANAGEMENT	CINEMA ARTSCINEMA MOTION PICTURE2 UNITSARTS 31APPRECIATIONHours:1 Lecture/Discussion2 LabExplores the origin of motion picture production, objectives ofvarious directors, actors and producers in their films, andtechnology and esthetic changes in motion picture production.Students are taught to view the motion picture as an art formand to evaluate the objectives of motion pictures and theirattainment. Cinema Arts 31 offered only in fall semester. Coversthe period from the beginning to the present with emphasis onAmerican films. Formerly CINEMA ARTS 1.
Hours: 18 Lecture/Discussion (18 hour course) This is an introductory course designed to meet the training needs of family day care providers. This course combines theory and practical application to introduce licensing requirements, health and safety practices, record keeping, developing business policies, support services and procedures unique to family day care. Formerly ECE 96A. CHLD FAMILY DAY CARE 1 UNIT DEV 157 PRINCIPLES AND PRACTICES 1 B Lecture/Discussion (18 hour course) This is an introductory course designed to meet the training needs of family day care providers. This course combines theory and practical application to introduce daily routines for	CINEMAMOTION PICTURE ART 322 UNITSART 32APPRECIATION Hours:1 Lecture/Discussion 2 LabAn exploration of the origin of motion picture production, objectives of various directors, actors and producers in their films, and technology and aesthetic changes in motion picture production. Students are taught to view the motion picture as an art form and to evaluate the objectives of motion pictures and their attainment. Cinema Arts 32, offered only in spring semester, covers contemporary film 1930 to present, with emphasis on international films. Formerly CINEMA ARTS 2.
family day care, parent/provider relationships, problem solving, growth and development, discipiline techniques, and avoidance of provider burnout. Formerly ECE 968.	

COMPUTER

3 UNITS

3 UNITS

4 UNITS

COMPUTER INTRODUCTION TO COMPUTER INFORMATION SYSTEMS Hours:

2 Lecture/Discussion

2 Lab

Materials Fee: \$7.00

Computer 5 is a course intended to introduce students to the science of data/information processing. Students will learn how computer systems work and how they are used in society In general and in business in particular. The lecture portion of this course discusses the theory, concepts and terminology used in computer information systems today. In the Lab, students will learn to use a microcomputer system, how to write some very simple programs, and how to use some important applications software packages-a word processing, a

spreadsheet and a data base program. Formerly BUS5. (CAN-BUS 6)

Recommended Prerequisite: Keyboarding capability of at least 20 cwpm.

COMPUTER BASIC PROGRAMMING

Hours: 2 Lecture/Discussion

2 Lab

Materials Fee: \$7.00

The class is designed to feach the BASIC programming language and essential analysis and programming techniques for preparing typical business reports. Topics included are: math and logic operation; data editing, storage, and retrieval; arrays or table processing; creating and maintenance of sequential and random file structures; interactive techniques; menu development; sorting and selecting data, Formerly BUS 3, (CAN-CSCI 6)

Recommended Prerequisites: Computer 5 or Computer 131 or concurrent enrollment. Keyboarding requirement of 20 words per minute.

COMPUTER COBOL PROGRAMMING 7

3 Lecture/Discussion Hours: 2 Lab

Materials Fee: \$7.00

This is an advanced computer class designed to teach students the Common Business Oriented Language (COBOL), how to plan and program typical business problems in Structured COBOL, how to find and correct errors in the program, and how to document the program. The student will develop increasingly challenging programs to prepare reports, construct and use tables, use date files, and on-line systems. Formerly BUS7. (CAN-CSCI 8)

Recommended Prerequisites: Computer 5 or Computer 131 or concurrent enrollment. Keyboard requirement of 20 words per minute.

COMPUTER

COMPUTER MICROCOMPUTER 130 **OPERATIONS: INTRO TO PERSONAL COMPUTERS**

4 Lecture/Discussion Hours

Materials Fee: \$7.00

This course provides instruction in the use of personal computers. Assuming no prior experience, students will learn to operate a personal computer. The course will provide instruction in the use of some of the most popular computer software packages including word processing, spreadsheet, and database applications. Formerly BUS 15.

Recommended Prerequisites: Business 360 or a keyboarding of 20 cwpm.

COMPUTER MICROCOMPUTER 131 **OPERATIONS - DOS** Hours: 3 Lecture/Discussion Materials Fee: \$7.00

Computer 131 is a first-semester lecture/discussion microcomputer course covering the basic disk operating system commands of Version 3.3 DOS. Students enrolling in the class will be able to understand the function each DOS command performs and be able to use those DOS commands to perform routine operations such as managing flies, creating menus, working with sub-directories, making backups, and troubleshooting the systems. No previous computer operating experience is required. It is recommended that students enrolling In this course have a keyboarding speed of 20 cwpm. An additional two to four hours of computer time will be needed each week to enable a student to complete his/her assignments. Formerly BUS 17A.

Recommended Prerequisite: Keyboarding speed of 20 cwpm.

OPERATIONS - ADVANCED DOS

2 Lecture/Discussion

COMPUTER	MICROCOMPUTER
132	OPERATIONS - ADV
Hours:	2 Lecture/Discussion

2 UNITS

4 UNITS

3 UNITS

Materials Fee: \$7.00

1 Lab

Computer 132 is a second semester lecture/jab microcomputer course covering the advanced disk operation system commands of Version 3.3 DOS. The course provides information to help the computer user achieve maximum effectiveness on his/her personal computer. The course will enable DOS users to gain a better understanding of and insight into the DOS environment. Students will be able to analyze and explain various advanced batch files. Formerly BUS 17B.

Recommended Prerequisites: Computer 131 with a grade of C or better.

COMPUTER

4 UNITS

COMPUTER MICROCOMPUTER 133 **OPERATIONS: DATABASE** PROCESSING

4 Lecture/Discussion Hours:

Materials Fee: \$7.00

Database processing for microcomputers emphasizes relational database theory as well as design and implementation. Practical applications will include using the database software, first to recreate examples from the text, then to design a database, and last to build an application using the database. Formerly BUS 14.

Recommended Prerequisites: Previous experience on microcomputers with a keyboarding speed of 20 cwpm and Computer 130 and 131.

COMPUTER MICROCOMPUTER OPERATIONS: 2 UNITS **TELECOMMUNICATIONS** 134

2 Lecture/Discussion Hours: Materials Fee: \$5.00 Microcomputer Operations: Telecommunications and resulting technology. Provides an understanding and working knowledge of both managerial and technical aspects of microcomputer communications. The student learns how to use communications software, access electronic bulletin boards, data bases, another computer or unattended remote access computers. Various types of hardware, formatting codes, and public information utilities are included. Formerly BUS 16.

Recommended Prerequisites: Business 131 or permission of the department.

COMPUTER MICROCOMPUTER **OPERATIONS:** 135 **DESKTOP PUBLISHING FOR BUSINESS**

4 Lecture/Discussion Hours:

Materials Fee: \$8.00

This is a basic course in desktop publishing where students will learn the essentials of design, typography, graphics and text using PageMaker Software, Windows, and DOS. Desktop Publishing for Business is the use of a microcomputer based system to produce publication materials. The materials include sales reports, project proposals, notices, filers, office forms, brochures, reports manuals, and newsletters. Desktop publishing is considered prepress technology. In other words, desktop publishing is the method to produce masters for reproduction. Formerly BUS 64.

Recommended Prerequisites: Computer 131 or its equivalent. English 251 score on the Placement Test.

COURSE DESCRIPTIONS

COMPUTER

COMPUTER MICROCOMPUTER **OPERATIONS: WORD** 136

3 UNITS

PROCESSING USING WORD PERFECT 3 Lecture/Discussion Hours:

Materials Fee: \$7.00

The course is designed to teach the student the Word Perfect word processing program.

This competency based course will familiarize the student with advanced operations using proper formatting procedures. An emphasis will be placed on language arts skills, machine transcription, and proofreading as they relate to information/ word processing. This course is designed to fulfill the requirement for the Word Processing Major and/or the Word Processing Certificate. Formerly BUS 65C.

Recommended Prerequisite: The ability to write a properly structured sentence; typing 45 wpm; be able to use a transcription machine and type from dictation; Computer 131 or current enrollment.

COMPUTER MICROCOMPUTER 137

3 UNITS

1 UNIT

OPERATIONS: WORD PROCESSING WITH WORDSTAR 3 Lecture/Discussion Hours: 3 Lab

Materials Fee: \$8.00

The course is designed to teach the student the Wordstar word processing application program. This competency based course will familiarize the student with simple to complex operations using proper formatting procedures. An emphasis will be placed on language arts skills, proofreading, and office procedures skills as they relate to information/wordprocessing. This course is designed to fulfill the requirement for the word processing malor and/or the word processing certificate Recommended Prerequisites: Business 160 or keyboard at 35 cwpm. Computer 131 or current enrollment recommended. Formerly BUS 65B.

COMPUTER MICROCOMPUTER **OPERATIONS: INTRODUCTION TO** 302 WORDSTAR Hours: 9 Lecture/Discussion

Materials Fee: \$5,00

The course is designed to give the student an overview of and hands-on experience with the WordStar word processing program. It is a non-degree college credit course. Students will become familiar with the following formats: letters, reports, tables columns, and merging with variables. Formerly BUS 35B, Recommended Prerequisite: Keyboarding speed of 20-30 cwpm.

17 Lab (26 hr. Course)

4 UNITS

COMPUTER

COMPUTER MICROCOMPUTER **1 UNIT OPERATION:** 304 INTRODUCTION TO THE SPREADSHEET Hours: 9 Lecture/Discussion 17 Lab (26 hr. Course) Materials Fee: \$5.00

Through the use of microcomputers (DOS-based), the student will become able to use a popular electronic spreadsheet program. Basic concepts of spreadsheets will be explored including layouts, command structure, and mathematical formulas. Various types of business and personal applications to solve any problem that can be placed in columns and rows will be explored. The particular spreadsheet used for any offering of this course may be either Lotus 123, SuperCalc, Quattro, depending upon availability. Formerly BUS 35C. Prerequisites: Keyboarding speed of 20 cwpm is recommended.

COMPUTED	MICROCOMPUTER	1 UNIT
COMPUTER	WICKOCOWPUTER	
306	OPERATIONS: INTRODUCTION TO	
	WORDPERFECT	
Hours:	9 Lecture/Discussion	
	17 Lab (26 hr. Course)	
Materials F	ee: \$5.00	
This course	is designed to give the student an	overview

and hands-on experience of the Wordperfect word processing program. It is a non-degree, college credit course. Students will become familiar with the following formats: letters, reports, tables, columns, and merging shell documents with different variables. Formerly BUS 35E.

Recommended Prerequisite: Keyboarding speed of 20-30 cwpm.

COMPUTER	FUNDAMENTALS	3 UNITS
351	OF KEYBOARDING AND COMPUTER	SKILLS
Hours:	3 Lecture/Discussion	
Materials Fe	ee: \$8.00	

This SUCCESS Program course, introduced on the IBM Personal Computer designed to walk the first time user, step-by-step through the basic keyboarding skills, microcomputer operation protocol terminology, and basic application software including DOS, data base management, word processing, electronic spreadsheets, and business graphics, and proofreading skills. Formerly BUS 151.

Prerequisites: Must be enrolled in the SUCCESS Program.



3 UNITS

CFS 6 **COLOR AND DESIGN** 2 Lecture/Discussion Hours:

2 Lab CROSS REF: Art 6

Materials Fee: \$10.00

This is a basic course in art with a primary purpose of familiarizing the students with elements and principles used in design art. It includes fundamental concepts of form, shape, line and color In second dimensions. Formerly HEC 6A. (CAN-HEC 4 includes CFS 6 and 7 or ART 6 and 7)

CONSUMER/FAMILY STUDIES

3 UNITS

3 UNITS

3 UNITS

COLOR AND DESIGN CFS 7 2 Lecture/Discussion Hours: 2 Lab **CROSS REF: Art7** Materials Fee: \$10.00 This is an advanced course in the principles of color and design. It includes a further discovery of the basic design elements of form, shape, line, and color. This class takes these previous principles and applies them to the 3-dimensional form. There is an emphasis on personal artistic statements toward assignment In the CFS 7 class. Formerly H EC 6B. Recommended Prereguisite: CFS 6 or Art 6. MARRIAGE AND FAMILY LIFE **CFS 126** Hours: **3 Lecture/Discussion CROSS REF: Sociology 126** An Introductory course to marriage and family life. This course

will emphasize the following topics: dating, marriage changing roles, communication skills, family planning, human sexuality, parenting, divorce and remarriage. Formerly H EC 26. Recommended Prerequisite: Eligible for English 1.

LIFE SPAN DEVELOPMENT **CFS 80 3 UNITS** Hours: 3 Lecture/Discussion

A study of human development incorporating the major stages of life from conception to old age and death. Emphasis on physical, cognitive, social, emotional, and moral development. Major topics of human growth include human behavior, theory, sexuality, nutrition, health, stress, and relationships to the social and physical environment. Formerly HEC 38.

CFS 186 PERSONAL MANAGEMENT/ CONSUMER ECONOMICS 3 Lecture/Discussion Hours:

This course is designed to give students a background in personal and family financial management, including money plans, use of credit, and purchase of consumer goods and services such as insurance and housing. This course is valuable for students pursuing careers in service fields such as home economics, social services, financial business occupations, and personal, family and financial counseling. The class is also part of a fundamental education for those who manage their own finances. Formerly H EC 31.

CFS 190g-d SUPERVISED PRACTICE

1-3 UNITS

Hours: 3 Lab per week/per unit Under the supervision of a master home economics instructor, selected students assist and direct students in less advanced classes. This course provides experience for students interested in teaching, counseling and other employment or volunteer situations where the student is expected to take a leadership role with others. Formerly H EC 48a-c.

CONSUMER/FAMILY STUDIES

INTRODUCTION TO CONSUMER/ **3 UNITS CFS 300 FAMILY STUDIES** Hours:

3 Lecture/Discussion

This is one of a series of courses designed to help students develop competence and confidence necessary for successful college study in both academic and vocational courses. This class will introduce the student to the discipline and related areas. Subject areas include: a brief overview of the college system; child development and family relationships; nutrition and foods; consumer economics; fashion, textiles, clothing; interior design. This course is an elective course in the SUCCESS program. Formerly H EC 80.

Prerequisites: Must be enrolled in the SUCCESS program.

COSMETOLOGY

COSMETOL BASIC COSMETOLOGY 261 Hours:

10 Lecture/Discussion 25 Lab

Cosmetology 261 Includes a study of basic scientific theories and techniques as they apply to cosmetology. The course covers disorders, diseases, analysis, and treatment of the skin, hair, scalp, and nalls; bacteriology, sterilizations, and sanitation; principles of hair styling, chemicals and applications, fundamentals of massage, facials, and manicuring; ethics in cosmetology and salon management principles.

Classroom and laboratory activities: classroom is 10-12 hours per week; salon and laboratory demonstrations and simulation approximately 25-30 hours per week. Formerly COSMET 61A. Prerequisite: Admission into the Cosmetology Program.

COSMETOL INTERMEDIATE COSMETOLOGY 262

Hours: 10 Lecture/Discussion 25 Lab

Cosmetology 262 includes a study of basic scientific theories and techniques as they apply to cosmetology. The course covers disorders, diseases, analysis, and treatment of the skin, hair, scalp, and nails; bacteriology, sterilizations, and sanitation; principles of hair styling, chemicals and applications, fundamentals of massage, facials, and manicuring; ethics in cosmetology and salon management principles.

Classroom and laboratory in training activities: classroom is 10-12 hours per week; salon and laboratory demonstrations and simulation approximately 25-30 hours per week. Formerly COSMET 61B.

Prerequisite: Admission to the Cosmetology Program.

COSMETOLOGY

COSMETOL ADVANCED COSMETOLOGY 263

5 lecture, 30 lecture Hours:

Cosmetology 263 Includes a study of basic scientific theories and techniques as they apply to cosmetology. The course covers disorders, diseases, analysis, and treatment of the skin, hair, scalp, and nails; bacterlology, sterilizations, and sanitation; principles of hair styling, chemicals and applications, fundamentals of massage, facials, and manicuring; ethics in cosmetology and salon management principles. Classroom and laboratory in training activities: classroom is 10-12 hours per week; salon and laboratory demonstrations and simulation approximately 25-30 hours per week. Formerly COSMET 62. Prerequisite: Admission into the Cosmetology Program.

DAIRY SCIENCE

DAIRY **ELEMENTS OF** SCI 101 DAIRYING Hours: 1 Lab

12 UNITS

12 UNITS

3 UNITS

10 UNITS

3 Lecture/Discussion An introductory course designed to give students the basic

understanding of dairying in California. Includes calf raising, record evaluation, fitting and showing of dairy cattle, housing, dairy setup facilities, and evaluating of dairy cattle. The course also explores the career opportunities available in the Dairy industry by visiting several dalries in the local area. Formerly DAIRY SCI 1.

DAIRY **PRINCIPLES OF** SCI 102 **MILK PRODUCTION** Hours: 3 Lecture/Discussion 1 Lab

3 UNITS

Dairy Science 102 is designed to give students the factors Involved in milk production by dairy cows. Includes anatomy and physiology of the mammary gland, udder health, automatic milking equipment, dairy sanitation, and feeding of dairy cows. Students will also be able to use the computer to calculate economic losses due to high somatic cell counts and to use ration programs to formulate profit maximizing, and least cost rations for dairy cows. Formerly DAIRY SCI 2.

DAIRY COMMERCIAL SCI 103 **DAIRY HERD MANAGEMENT** 3 Lecture/Discussion Hours: 1 Lab

3 UNITS

Materials Fee: \$5.00

Successfully managing a commercial dairy operation is the goal of this course. Use of computer herd health programs, cost analysis using spreadsheets, and managing techniques are covered. Practical hands-on applications of the decisionmaking process involving feeding, herd health, labor, and cost of production are covered. Formerly DAIRY SCIENCE 3.

DAIRY SCIENCE

				•	
DAIRY SCI 104 Hours:	BREEDING AND SELECTION OF DAIRY CATTLE 3 Lecture/Discussion 1 Lab	3 UNITS	Hours:	APPLIED DRAWING 3 Lecture/Discussion 3 Lab ne fundamentals of technica	3 UNITS
C.O.S. The of selectic reproduct		ents an understanding d physiology of dairy n. Practical hands-on	application orthograph dimensioni pictorial dr each to m for all en Recomme	ns, Emphasis will be placed up hic projection, working dra ng, developments, threads of awing, dupilcation, and the anufacturing design. The co glineering and Industrial nded Prerequisite: One year 200. Formerly DRAFT 22.	con: sketches, lettering, wings, auxiliary views, and fasteners, sections, interrelationships of ourse is recommended technology students.
DAIRY	DAIRY CATTLE	1 UNIT			
105a-d	SELECTION, JUDGING		/		
Hours	AND SHOWING		DRAFT 101	MANUFACTURING DESIGN GRAPHICS	4 UNITS
Hours:	1 Lecture/Discussion 1 Lab		Hours:	3 Lecture/Discussion	
<u>Materials I</u>		4 	nours,	2 Lab	
An Introdu	ictory course in the selection	of dairy cattle. It is		Involves advanced technico	
designed t cattle are Students a	to give students a basic under selected based on body co iso have the option to compe nal level. Formerly DAIRY SCI &	standing of how dairy nformation and type. He on the local, state,	and stand manufactu dimensioni of industria seeking th technolog	ards. Cams, gears, detail a uring processes, structural d ng and tolerancing are em i design problems. This cour e knowledge and skillis as y, machine design and me nded Prerequisite: Draffing	nd assembly drawings, letailing, piping layout, phasized in the solution se is designed for those soclated with drafting echanical engineering.
DAIRY 106 Hours:	INTRODUCTION TO DAIRY PRODUCTS TECHNOLO 3 Lecture/Discussion	3 UNITS DGY			· · · · · · · · · · · · · · · · · · ·
students a	3 Lab nce 106 is an introductory cou basic understanding of the scie	ence and technology	Hours:	DESCRIPTIVE GEOMETRY 3 Lecture/Discussion 3 Lab	3 UNITS
processing	od products. Dairy manufactu technlques for fluid milk, butte ncentrated dairy foods, and 6.	r, cheeses, ice cream,	principles solution o branches everyone	is a study of the fundamento of spacial relationships. The f three dimensional proble of engineering. Descriptive (oursuing the knowledge an re, construction, draffing, and	ese are applied in the ems arising in various geometry is needed by a skills associated with
DAIRY 107a-d Hours:	PRACTICAL SKILLS IN DAIRYING 4 Lab	1 UNIT		e: One year of high school m Geometry maybe taken co	
practicals able to mili with instruc calves, fre	nce 107 is designed to give stud kills in dairy production applico k and feed cows on the COS D ctor approval. Other skills led sh cow care, equipment repa I general dairy work.	ations. Students will be airy or on other dairies arned will be feeding	Hours: An Introdu	INTRODUCTION TO COMPU ASSISTED DRAFTING 3 Lecture/Discussion 2 Lab uction to the basic cond ns of a computer drive drafting	epts, principles, and
DAIRY 108	DAIRY NUTRITION	3 UNITS	thecompu	ite simple industrial and arch iter system. This course will gre e knowledge and skills for e	eatly benefit all students
Hours:	3 Lecture/Discussion		constructi	on, engineering, manufac	cturing, drafting, and
DalaySalar	1 Lab	anood dain students	computer	applications. Formerly DRA	FT 26A.
	nce 108 is designed to give adv In study of dairy cattle nutrition.				
	attle, commodity feeding, ra	• • • • • • • • • • • • • • • • • • • •			
feeding sy	stems will be discussed. Con	nputer application of		•	
	ulation will be used along with	using spreadsheets to			,
	ed Inventories and usage.				
ĸecomme	nded Prerequisites: Dairy Scle	ance iui and 102.			

DRAFTING

DRAFTING

DRAFT 111 COMPUTER ASSISTED DRAFTING

3 Lecture/Discussion Hours: 2 Lab

A study of the fundamental concepts, principles, and application of a computerized drafting system. Through the utilization of computers, students will create working drawings and plans for various industrial and architectural applications. This is an exemplary career preparation course for any person interested in acquiring the requisite knowledge and skills for entry into architecture, construction, engineering, manufacturing, drafting, and computer applications. Formerly DRAFT 26B.

Recommended Prerequisite: Draffing 110.

DRAFT 120 INTRODUCTION TO COMPUTER **3 UNITS** ASSISTED ILLUSTRATION **3 Lecture/Discussion** Hours: 2 Lab

A study of the fundamental concepts and principles of a computerized two dimensional pictorial drawing system and applications in technical Illustration professions. Primarily, axonometric and oblique drawings will be generated on a 2-D computer program for industrial applications. In order of their utilization by industry, emphasis will be placed upon the following pictorial drawing methods: 1. isometric, 2. dimetric, 3. trimetric, 4. cabinet oblique and 5. cavalier oblique. The course is mandatory for those pursuing any career related to illustration and rendering. It would also be an asset for anyone seeking supplemental skills and knowledge for entry into architecture, computer applications, drafting, engineering, and manufacturing. Formerly DRAFT 35A. Prerequisites: Drafting 100 & 110.

DRAFT 121 COMPUTER ASSISTED **3 UNITS** ILLUSTRATION Hours: **3 Lecture/Discussion** 2 Lab

A study of the fundamental concepts, principles, and application of a computerized three dimensional surface modeling program. Utilizing this program, students will generate pictorial drawings for industrial and architectural applications. This course is necessary for anyone pursuing any career related to illustration and rendering. It would also benefit anyone seeking the knowledge and skills for entry into architecture, manufacturing, engineering, drafting, and computer application. Formerly DRAFT 35B.

Recommended Prerequisites: Draft 111 and Draft 120.

DRAFTING

4 UNITS

3 UNITS

3 UNITS

2 UNITS

DRAFT 130 INTRODUCTION TO COMPUTER ASSISTED CABINET DESIGN Hours:

4 UNITS

3 Lecture/Discussion

2 Lab

A study of the fundamental concepts, principles, and applications of a computerized system covering all phases of cabinet design. By utilizing computers, students will design cabinets, generate cabinet drawings, cutting lists, estimates for material and labor, and contract documents. This course is an invaluable career asset for people Interested in architecture, construction, cabinet and furniture manufacturing, drafting, and computer applications. Formerly DRAFT 29.

DRAFT 160 GRAPHIC DESIGN Hours: 3 Lecture/Discussion 2 Lab

Astudy of graphic design theory, elements, principles, processes, and methodology as used in the graphic communication Industry. The skills and knowledge required in creative problem solving by the graphic designer are developed throughout the course with assignments that are actual commercial applications. The students interested in art, design and any field of graphic communications will find this course an invaluable asset. Formerly DRAFT 21A.

DRAFT 161 GRAPHIC DESIGN APPLICATION Hours: **3 Lecture/Discussion**

2 Lab A study in the application of creative problem solving skills and knowledge in the graphic design field. The students will employ the theory, elements, principles, processes, and methodology of design to analyze, evaluate, select and prepare graphic designs for commercial applications. Actual jobs may include designs for various campus publications. The class is designed for students planning to pursue a career in any field of graphic

DRAFT 200 BEGINNING MECHANICAL DRAWING Hours: 2 Lecture/Discussion

2 Lab

communications. Formerly DRAFT 21B.

A rapid comprehensive coverage of the fundamentals of mechanical drawing and modern drafting practice. Including, but not confirmed to, the following: lettering, geometric drawing, orthographic projection, pictorial representation, and reproduction. This course is a basis for all drafting related majors and is recommended for students that have had no high school drafting but plan to enter architecture, engineering, drafting, or other graphic communication fields. Formerly DRAFT 52.

DRAFTING **ELECTRONICS 3 UNITS** ELECT 101 DC CIRCUITS **5 UNITS DRAFT 201 CIVIL ENGINEERING** 4 Lecture/Discussion DRAFTING Hours: 2 Lecture/Discussion Hours: 4 tab 2 lab Materials Fee: \$5.00 A class designed to prepare the participant to function This is the introductory class in the C.O.S. Electronics program. It offers training for students entering the electronics field. effectively in a civil engineering office or department of public Formerly ECONOMICS 1B. (CAN-ECON 4) works within a city or county agency as a drafter. Formerly DRAFT 54A. Recommended Prerequisite: One semester of algebra with a grade of "C" or better, and concurrently enrolled or completed Prerequisite: A recent (within two years) drafting class or current employment as a drafter. English 251. Formerly ELECT 1A. **DRAFT 202 CIVIL ENGINEERING 3 UNITS** ELECT 102 AC CIRCUITS **5 UNITS** DESIGN Hours: **4 Lecture/Discussion** 2 Lecture/Discussion 4 Lab Hours: 2 lab Materials Fee: \$5.00 A class designed to prepare the participant to function This class offers continued training for students entering the effectively in a Civil Engineering office or department of public electronicsfield and includes lecture and laboratory instruction works within a city of county agency as a designer/drafter. with AC circuits including mathematics, circuit analysis, use of Prerequisite: A recent (within two years) drafting class, Drafting test equipment and soldering. It is the second semester of study 201 or current employment as a drafter. Formerly DRAFT 54B. for obtaining F.C.C. general radio-telephone license or Its, equivalent. Prereauisites: Electronics 101 or an equivalent class with a grade of "C" or better. Formerly ELECT 1B. **ECONOMICS ELECT 103 ACTIVE DEVICES 5 UNITS** 4 Lecture/Discussion Hours: ECON 1 **PRINCIPLES OF ECONOMICS I 3 UNITS** 4 Lab Hours: **3 Lecture/Discussion** Materials Fee: \$5.00 Astudy of the principles of national output, income, employment This is a course in the third of four semesters in the C.O.S. and prices. The subject matter includes an analysis of aggregate Electronics program. It offers training for student entering the production, inflation, the banking system, and the application field of electronics. Includes lecture and laboratory projects of fiscal and monetary policy. Macroeconomics also concerns such as: solid state devices, power supplies, audio circuits, and Itself with how the United States economy interacts with the rest use of test equipment for testing and trouble-shooting. The of the world. Formerly ECONOMICS 1A. (CAN-ECON 2) third semester in preparation for obtaining the FCC general radio-telephone license or equivalent. Formerly ELECT 2A. Prerequisites: Must have completed Electronics 102 or equivalent with a grade of "C" of better. ECON 2 **PRINCIPLES OF ECONOMICS II 3 UNITS** 3 Lecture/Discussion Hours: Microeconomics: Principles and applications in the theory of producer and consumer behavior, and the distribution of ELECT 104 COMMUNICATION CIRCUITS **5 UNITS** payments as derived from output markets. Various market 4 Lecture/Discussion Hours: structures are reviewed and the role of government production, Alah regulation, and involvement in firm decisions and consumer Materials Fee: \$5.00 behavlor are analyzed. Formerly ECONOMICS 1B. (CAN-This is the fourth class in the COS Electronics program. It offers FCON 4) training for students seeking employment in electronic **Recommended Prerequisites:** Sophomore standing and high communications, including broadcasting and two-way school algebra. communications. Includes lecture and laboratory instruction with emphasis on use of equipment and trouble-shooting. At completion student should be qualified to obtain an F.C.C. general radio telephone commercial license or equivalent. Formerly ELECT 2B. Prerequisites: Must have completed electronics 103 or equivalent with a grade of "C" or better.

ELECTRONICS

ELECT 105 INDUSTRIAL FABRICATION AND 3 UNITS DESIGN

Hours: 2 Lecture/Discussion 2 Lab

Materiais Fee: \$3.00

This course offers the student a working knowledge of the tools, techniques, materials, and procedures used in industry to create prototype and production products. The course will include schematic generation, project documentation, chassis layout and finishing, breadboarding, printed wiring board layout and construction system testing and design philosophy. Formerly ELECT 5.

Prerequisites: Electronics 101 or 110 completed or in progress.

ELECT 110 DIGITAL CIRCUITS Hours: 2 Lecture/Discussion 2 Lab

3 UNITS

2 Lab <u>Materials Fee: \$3.00</u> This course offers the student a working knowledge of the theory and application of practical dialtal circuits. Dialtal

4 UNITS

theory and application of practical digital circuits. Digital circuits are introduced as combinations of simple circuits such as gates, flip-flops, arithmetic elements and memories. Lab assignments help students understand and troubleshoot standard digital circuit configurations. Formerly ELECT 10.

ELECT 111 MICRO-PROCESSOR/PLC 3 UNITS FUNDAMENTALS Hours: 2 Lecture/Discussion 2 Lab

Materials Fee: \$3.00

This course offers the student a study of basic microprocessor theory. It is an introduction to microprocessor internal architecture and the software techniques used to program proper operation of these devices. Laboratory experiments introduce students to memory and I/O techniques common to small microprocessor systems. Assembly language programs are developed by the student, entered into the trainer, and single-stepped line by line to demonstrate internal operation of the microprocessor. Experiments are directed to PLC application and trouble shooting. Formerly ELECT 11/PLC. **Prerequisites:** Students should have completed Electronics 101 and 110 or permission of department.

ELECT 112	MICRO-PROCESSOR
	APPLICATIONS
Hours:	3 Lecture/Discussion
	3 Lab

Materials Fee: \$4.00

This course offers the student a study of advanced microcomputer and microprocessor interfacing techniques. Lectures, demonstrations, and laboratory assignments will study intel 8085A and 8088 microprocessor-based systems. Special emphasis is placed on "hands-on" laboratory experience with various interface technologies. Formerly ELECT 12.

Prerequisites: Student should have completed Electronics 110 and 111 or permission of department.

COURSE DESCRIPTIONS

ELECTRONICS

ELECT 113 PC TROUBLE-SHOOTING/REPAIR Hours: 3 Lecture/Discussion

3 Lab

4 UNITS

Materials Fee: \$4.00

Thisis an advanced digital course covering technical operation, troubleshooting and repair of the IBM PC. Students will be introduced to technical foundations of personal computers, advanced DOS concepts, understanding assembly programs, diagnostic software, and troubleshooting and repair of all PC components and peripherals. Formerly ELECT 13.

Prerequisites: Student should have a basic knowledge of the electronic and digital circuits; and keyboarding skills.

ELECT 114 OPERATIONAL

AMPLIFIER CIRCUITS Hours: 2 Lecture/Discussion 2 Lab

3 UNITS

4 UNITS

Materials Fee: \$3.00

The course is the last offering in a sequence that begins with DC circuits and continues through AC circuits and electronic devices. This course offers the student an advanced study of operational amplifiers. These components are used in a multitude of commercial and military products. The course will include theory of operation, circuit configurations, practical uses, and laboratory breadboarding, troubleshooting, and testing. Formerly ELECT 4.

Prerequisites: Student should have completed Electronics 102 and 103 or permission of department.

EMERGENCY MEDICAL TECHNOLOGY

EMT 351 EMERGENCY MEDICAL TECHNOLOGY Hours: 3 Lecture/Discussion 3 Lab (one hour in class; two hours by arrangement)

This is a vocational education course for students who wish to work as emergency medical technicians on ambulances or in hospital emergency rooms. The course will emphasize the development of skills in the recognition of symptoms of illness and injury and proper procedures of emergency care. This course meets the requirements of the California Department of Health for certification as EMT-I. It is recommended for anyone involved in public safety. Formerly EMT 50.
ENABLER SKILLS

ESKL COMPUTATION 601a-d

1-3 UNITS

Hours: 2-6 Lab

Designed for the student with learning deficits in computation. Remediation plans will be based on assessment of Individual need and learning style. Instruction may include one-to-one, small group, computer-assisted, or larger group instruction. Formerly ENAB SKIL 1a-d.

Recommended Prerequisite: Individual assessment must be conducted to professionally verify the nature and extent of the disability and the student must meet state-wide LD eligibility criteria.

ESKL **EXPRESSION** 1-3 UNITS 602a-d Hours: 3-9 Lab

Designed for the student with learning deficits in written expression of ideas, including difficulties with organization of Ideas, clarity, grammar, punctuation and word usage. Instruction may include one-to-one, small group, computerassisted or larger group instruction. Formerly ENAB SKIL 2a-d. Recommended Prerequisite: Individual assessment must be conducted to professionally verify the nature and extent of the disability and the student must meet state-wide LD eligibility criteria.

1-3 UNITS ESKL **DECODING/LANGUAGE** 603a-d

3-9 Lecture/Discussion Hours:

Designed for the student with learning deficits in reading/ language skills. Remediation plans will be based on assessment of individual needs and learning style. Instruction may include one-to-one, small group, computer-assisted or larger group Instruction. Formerly ENAB SKIL 3a-d.

Recommended Prerequisite: Individual assessment must be conducted to professionally verify the nature and extent of the disability and the student must meet state-wide LD eligibility criteria.

ORGANIZATION ESKL 604a-d

1-3 UNITS

Hours: 3-9 Lecture/Discussion

Designed for the student with study skills needs and/or tutoring needs for mainstream classes. A structured study skills program covering outlining, organization, notetaking skills and application of these skills, along with a secjuded, guiet study area including instruction in word processing will be provided. Instruction may include on-to-one, small group, computer assisted or larger group instruction. Formerly ENAB SKIL 4a-d.

Recommended Prerequisite: Individual assessment must be conducted to professionally verify the nature and extent of the disability and the student must meet state-wide LD eligibility criteria.

ENABLER SKILLS

ESKL SEQUENCING 605a-d

Hours: 3-9 Lecture/Discussion

Designed for the student with deficits in sequencing and spelling. Remediation plans will be based on assessment of Individual need and learning style. Instruction may include one-to-one, small group, computer assisted or larger group instruction. Formerly ENAB SKIL 5a-d.

Recommended Prerequisite: Individual assessment must be conducted to professionally verify the nature and extent of the disability and the student must meet state-wide LD eligibility criteria.

ENGINEERING

ENGR 1 GRAPHICS Hours:

3 Lecture/Discussion

3 Lab

3 UNITS

This is a one-semester course in descriptive geometry generally required of mechanical and industrial engineering majors. The course begins with the simple principles of orthographic projection, developing geometrical relationships between points, lines and planes, to the solution of applied problems such as true shape and development of surfaces, regions of outcrop, cuts and development of surfaces, regions of outcrop, cuts and fills, two- and three-dimensional vectors, graphical integration and differentiation, and empirical equations. Formerly ENGINEER 5A. (CAN-ENGR 2)

Prerequisites: Completion of trigonometry with a grade of "C" or better. Co-requisite of Math 75.

ENGR 2 **STATICS**

3 Lecture/Discussion Hours:

3 UNITS

This is the second semester course of a four-semester sequence of lower division engineering courses generally required of most engineering majors. The course consists of a fundamental treatment of the principles of statics in engineering mechanics. Topics included are: three dimensional vector operation, equilibrium of rigid bodies, support an systems of constraint, concentrated and distributed loads on trusses, frames, cables and beams, and energy methods for determination of equilibrium and stability, Formerly ENGINEER 5B. (CAN-ENGR 8) Prerequisites: Completion of Engineering 1 with a grade of "C" or better, Corequisite: Math 76 and Physics 5.

ENGR 3	MATERIALS SCIENCE	3 UNITS
Hours:	3 Lecture/Discussion	
	llab	

This is the third semester of a four-semester sequence of lower division engineering courses generally required of most engineering majors. The course consists of a fundamental treatment of the principles of materials science in engineering. Topics included are chemical bonding, crystallography, phase diagrams, reaction rates and mechanical and electrical properties of solids. Formerly ENGINEER 5C. (CAN -ENGR 4) Prerequisites: Completion of Engr 2, Chem 1, and English 1 Technical Writing with a grade of "C" or better. Co-requisite: Math 77 and Physics 6.

1-3 UNITS

ENGINEERING

ENGR 4 **ALTERNATING CURRENT CIRCUITS 4** UNITS Hours: **3 Lecture/Discussion** 3 Lab

This is the fourth semester of a four-semester sequence of lower division engineering courses generally required of most engineering majors. The course consists of a fundamental treatment of the principles of electrical circuits, both AC and DC steady-state and translent. Formerly ENGINEER 5D. (CAN-ENGR 6)

Prerequisites: Completion of ENGINEER 3 Co-requisite: Physics 7 and Math 8.

FNGP 7 SURVEYING **3 UNITS** Hours: 2 Lecture/Discussion 3 Lab

This is a one-semester plane surveying course generally taken by civil engineering and land surveying majors. It consists of an Introduction to the techniques of calculation and instrument use in field measurements involved in the horizontal and vertical control of civil engineering projects. As course requirements in this area differ widely among majors and options the student should consult the catalog of the intended transfer-institution. Prerequisites: Completion of trigonometry. Co-requisite: Math 75. (CAN-ENGR 10)

ENGLISH

ENGLISH 1 COLLEGE READING AND COMPOSITION

3 UNITS

Hours: **3 Lecture/Discussion** English 1 refines students conventional oral and written

expression through analysis, discussion and production of various expository styles. It emphasizes various techniques of organization, style, clarity, and research. The class also emphasizes close reading of expository writing. Students will be expected to write 6000 to 8000 words.

SCIENTIFIC/TECHNICAL OPTION: A course in critical reading and expository writing for science and engineering majors which emphasizes skills necessary for writing correct, clear, and precise reports. includes principles of logical reasoning, critical reading/discussion of good science writing, and methods of research. Students will be expected to write 6000 to 8000 words:

Recommended Prerequisites: A score of 25-35 in reading and 28-40 In English Usage on the Assessment Placement Services for Community Colleges or grade of "C" or higher in English 251 or recommendation through departmental evaluation. (CAN-ENGL 2)

ENGLISH

ENGLISH 1H READING AND

COMPOSITION - HONORS 4 Lecture/Discussion Hours:

English 1 Honors teaches students Intelligent and correct oral and written expression through reading and analysis, discussion and production of various expository styles. It emphasizes various techniques of organization, stylistic variation, clarity, integrating research (especially primary research) into students' work and close reading of various writers. Idiomatic and grammatical correctness is assumed. English 1 Honors differs from standard English 1 in that students must be accepted into the Honors Program and will enroli concurrently in a one unit collogulum which meets once per week and which culminates In an appropriate semester project.

Prerequisite: Acceptance into the Honors Program. (CAN-ENGL 2)

ENGLISH 2 LOGIC AND COMPOSITION Hours: **3 Lecture/Discussion**

This course gives students the opportunity to study and apply logic and cogent thinking to written and oral communication. Students learn to recognize logical fallacies, analyze others' arguments, and produce their own arguments and solutions to problems, using primary and secondary research. Students are required to write 6,000 to 8,000 words. English 2 will fulfill the critical thinking requirement for most state universities and is part of the transfer requirement to the University of California, **Berkelev**

Prereauisite: Completion of English 1 with a grade of "C" or better.

ENGLISH 4 COLLEGE COMPOSITION AND 3 UNITS LITERATURE

3 Lecture/Discussion Hours:

introduction to literature, including short stories, the novel, poetry, and drama, through close reading, discussion, and writing. Formerly ENGLISH 20. (CAN -ENGL 4) Recommended Prerequisite: English 1.

ENGLISH 10 CHICANO LITERATURE Hours: **3 Lecture/Discussion**

3 UNITS

4 UNITS

3 UNITS

An Interpretive analysis of Chicano literature from its origins to Its contemporary status. Poetry, short storles, essays, drama, and novels are used as a means of providing a panoramic view of literature and interpreting the Chicano experience in today's society. Emphasis will be placed upon the Contemporary Chicano Period or Renalssance of Chicano letters, and explosion In every literary genre. This course analyzes the interrelationships between literature, drama, popular music, art, and dance as reflections of Chicano artistic expression.

Recommended Prerequisite: Eligibility for English 1.

ENGLISH

148

ENGLISH 15 SURVEY OF BRITISH 3 UNITS LITERATURE 1 Hours: 3 Lecture/Discussion A survey of English literary history as revealed through an intensive study of some major authors and their typical masterpieces from Beowulf through the period of the Restoration. Formerly ENGLISH 5. (CAN-ENGL 8) Recommended Prerequisite: English 1.	ENGLISH 31 U.S. LITERATURE 23 UNITSHours:3 Lecture/DiscussionEnglish 31 is the first in a two-semester sequence of study in the literature of the United States. Like English 20, it focuses on reading, interpreting, and appreciating literature—in this case, U.S. literature from 1865-1980's— and on developing thinking and writing skills.Recommended Prerequisite:English 1. (CAN-ENGL'16)
ENGLISH 16 SURVEY OF BRITISH LITERATURE 2 Hours: 3 Lecture/Discussion Complementary course to English 15. A survey of English literary history as revealed through an intensive study of some major authors and their typical masterpieces from the Romantic Period to the present. Formerly ENGLISH 6 (CAN—Eng 10).	ENGLISH 32 THE BIBLE AS ENGLISH 3 UNITS LITERATURE Hours: 3 Lecture/Discussion A general survey of the history, blography, prophecy, narratives, poetry, and drama of the Old Testament and Apocryphal from a literary point of view, including some consideration of the historical background and influences. Recommended Prerequisite: English 1.
ENGLISH 18 BLACK AMERICAN 3 UNITS LITERATURE Hours: 3 Lecture/Discussion An interpretive survey of Black American Literature from its origins to its present status. Poetry, essays, drama, short stories, autobiographies, biographies, and novels are used to provide a full spectrum of the Black American experience from a literary perspective. Emphasis is placed upon the variety of means used by Black American writers to reflect the views of those out of the mainstream in American culture. Formerly ENGLISH 8. Recommended Prerequisite: English 1 recommended.	ENGLISH 44 WORLD LITERATURE3 UNITSHours:3 Lecture/DiscussionThis course covers the early masterpleces of the world's literature beginning with Greek and Roman works such as the lilad and Odyssey by Homer, the Aneld by Virgil followed by such representative works as Dante's The Divine Comedy, and concluding with the Renaissance works of Machiavelli and Cervantes. Other works of the periods are presented so that students receive a representative view of the literary works from antiquity to the 15th century.Recommended Prerequisite:English 1.
ENGLISH 19 WOMEN IN LITERATURE 3 UNITS Hours: 3 Lecture/Discussion 3 UNITS This course explores the images of women in literature, myths, short stories, essays, novels, and poems. This exploration may examine common stereotypes of women in various life stages, environments, and cultures. Students will be encouraged to connect the course material with their own life experiences. Formerly ENGLISH 9.	ENGLISH 45 WORLD LITERATURE 3 UNITS Hours: 3 Lecture/Discussion This course covers the world's literature after the Renaissance to the modern period. Such masterpieces as Voltaire's Candide, Goethe's Faust, Pushkin's Eugene Onegin, Doestoevsky's Notes from the Underground, losen's The Wild Duck, Kafka's "The Hunger Artist" and Proust's Remembrance of Things Past are but a few of the many works covered. Other works of the periods are presented so that students receive a representative view world literature. Recommended Prerequisite: English 1, College Reading and Coverted.
ENGLISH 30 U.S. 3 UNITS LITERATURE 1 Hours: 3 Lecture/Discussion A broad, general, chronological survey of the literature of the United States and a study of analysis of major literary works. This segment of the course considers colonial literature, the literature of the early republic, the American Renaissance and the literature of the Civil War years. Recommended Prerequisites: English 1. (CAN-ENGL 14)	Composition. ENGLISH 46 SHAKESPEARE 3 UNITS Hours: 3 Lecture/Discussion An Introduction to Shakespeare through films, lectures, student reports, analysis through a close reading of the plays, oral readings of major portions of the plays, and optional sceness acted by interested students in the class. The scope of the class is broad not only to familiarize the student with the life, historical period, and works of Shakespeare as material for critical essays and discussions, but also to present the works of Shakespeare

3 UNITS

ENGLISH

ough films, lectures, student reading of the plays, oral plays, and optional scenes class. The scope of the class tudent with the life, historical as material for critical essays nt the works of Shakespeare as living theater which should appeal to the ear and the emotions as well as to the intellect.

Recommended Prerequisite: English 1.

ENGLISH

ENGLISH

ENGLISH **CREATIVE WRITING** 114a-b

3 UNITS

Hours: **3 Lecture/Discussion**

An introduction to writing short stories, poems and plays. This course emphasizes class discussion about student writing. Class members are expected to read professional writers from various books and magazines and should write with the correctness required in English 1. English 114 a-b may be taken twice for credit. English 114a is a beginning course; 114b is a more advanced study of the same topics covered in 114a. After that It may be taken under the community service option.

Recommended Prerequisite: A grade of "C" or higher in English 1 or recommendation through departmental evaluation. Formerly ENGLISH 14a-b.

ENGLISH 251 FUNDAMENTALS OF **COLLEGE WRITING** Hours:

3 Lecture/Discussion

3 UNITS

This course is designed to give students a background in basic writing for their work in a vocation or for English 1. Students will practice writing short compositions, paragraphs and sentences. Close critical reading Is also an integral part of the course. They will also develop their skills in close critical reading. Formerly ENGLISH 51.

TECHNICAL OPTION: This course is designed to give students a background in basic writing for their work in a vocation. Students will practice writing short compositions, paragraphs, sentences and standard communiques such as reports used in business letters and research reports used in business and industry. They will also develop their skills in close critical reading.

Recommended Prerequisite: Acceptable score on English placement test or recommendation of the department through evaluation.

ENGLISH 253 READING FOR ENRICHMENT 3 Lecture/Discussion Hours:

3 UNITS

This is a course recommended for students who plan to conclude their formal education in the Community College. It is designed to improve a person's ability to read effectively and perceptively. Assigned readings are examined for vocabulary, central themes and main ideas, analysis of major and minor details, facts and inferences; critical thinking skills are emphasized. Formerly ENGLISH 53.

ENG 265	a-b developmental reading	4 UNITS
Hours:	3 Lecture/Discussion	
	2 Lab	

This course is designed to develop analytic reading skills. The relationship between reading, writing, and critical thinking is stressed. The course also includes study skills and vocabulary development. Formerly ENGLISH 65a-b.

Recommended Prereaulsites: Acceptable score on English Placement Test (reading score 19-24; grammar usage 0-8 or 28-40) or grade "C" or better in English 360. Because the course is Intended to provide students with additional instruction in reading before they take English 1, the course may be taken concurrently with English 251.

ENGLISH 360 WRITING, READING, STUDY SKILLS **6 UNITS** 6 Lecture/Discussion Hours:

1 Lab

This is the second course in a developmental, precollegiate sequence. The course is designed to build student self-concept; to teach observation, critical thinking, and study skills; and to review listening, reading, writing, and speaking skills. These communication strategies will be taught in an integrated approach and will prepare the student for college level courses and subsequent vocational and personal endeavors. Recommended Prerequisites: "C" or better in English 370 or qualifying placement scores of: Reading 0-18 and English Usage 19-27 or Reading 19-27 and English Usage 9-18 or recommendation of teacher from previous English course. Formerly ENGLISH 60.

ENGLISH **READING IMPROVEMENT 4 UNITS** 364

Hours: 3 Lecture/Discussion

This course is designed to develop basic reading skills, using a variety of materials, both fiction and non-fiction. A precollegiate course, it is designed for those students who feel they need additional guidance in developing comprehension and vocabulary skills. It is meant to supplement the reading and writing course sequence. Formerly ENGLISH R.

ENGLISH **BASIC ENGLISH SKILLS** 370

Hours: 6 Lecture/Discussion 1 Lab

Basic English skills is the first course in a developmental, precollegiate sequence. The course is designed to review basic grammar, sentence structure, and paragraphs; It also includes improvement in vocabulary, reading comprehension, and study skills. Using an integrated approach, reading, writing, and study skills will be taught as a thinking process that requires active, involved participation. Formerly ENGLISH 80.

Recommended Prerequisites: Qualifying placement scores of Reading Test 0-18 and English Usage Test 9-18.

ENGLISH 381	ENGLISH AS A SECOND LANGUAGE, BEGINNING LEVEL 1	8 UNITS	
Hours:	7 Lecture/Discussion		
	3 Lab		

A beginning English as a Second Language class for student who want to learn to speak, read, and write English. Formerly ENGLISH 70A.

Recommended Prerequisites: Students entering this class should have completed: 1) six years or less of formal education in their native country, or 2) Beginning ESL at a high school or adult school.

6 UNITS

ENGLISH

	ENGLISH	a ' 1		ENGLISH	
		8 UNITS Inguage class for students and write English. Formerly	of the class	NOSTALGIC AND REMINISCENT WRITING Per class - 3 Per week - 3 (One week course) writing based upon personal e) are encouraged to produce sh	ort autoblographical.
have com	n ded Prerequisites: Studer oleted: 1) seven years or lve country, or 2) Interme	nts entering this class should more of formal education odlate ESL at a high school	writings wil emphasis v about the	t, or nostalgic sketches. Sample: I be available if students choo will be on discussion of what stu mselves. This course is intend en. Formerly ENGLISH 16a-d.	se to read them, but dents choose to write
ENGLISH 383	ENGLISH AS A SECOND LANGUAGE, INTERMEDIATE LEVEL 1 7 Lecture/Discussion	8 UNITS		ENVIRONMENTAL CON TECHNOLOGY	NTROL
Hours:	3 Lab				
who want 71A. Recomme	to speak, read, and write	anguage class for students English. Formerly ENGLISH Completion of English 382 est score on LES Placement		BASIC AIR CONDITIONING 7 Lecture/Discussion 7 Lab Fee: \$10.00	8 UNITS
Test.				ctory lecture and demonstratio oning, refrigeration and heating	
ENGLISH 384	ENGLISH AS A SECOND LANGUAGE, INTERMEDIATE LEVEL 2	8 UNITS	electrical of and charg	and refrigeration theory, includ le systems, use electrical meter electrical problems and how	ling how to evacuate s to trouble shoot and
Hours:	7 Lecture/Discussion		entire duc	t system in the project house chniques, tools and safety pro	. In addition, proper
	to learn to speak, read, c	anguage class for students and write English, Formeriy	applied to	various other trades. Formerly nded Prerequisite: Math 210.	y AIR COND 80Å.
		Completion of English 383 est score on LES Placement	ECT 182	ADVANCED AIR 1 CONDITIONING - COMMERC DOMESTIC	12 UNITS IAL AND
ENGLISH	ENGLISH AS A	8 UNITS	Hours:	10 Lecture/Discussion 10 Lab	
385	SECOND LANGUAGE,	o onno		F <u>ee: \$10.00</u> nced course offered in ali	r conditioning and
Hours:	ADVANCED LEVEL 1 7 Lecture/Discussion	•	refrigerati	ion that covers commercia ng and refrigeration theory. To	I and domestic air
who want and spéak Recomme	to Improve their English king skills. Formerly ENGLI nded Prerequisites: 1) de of "C" or better, or 2)	anguage class for students reading, writing, listening, SH 72A. Completion of English 384 Appropriate test score on	wiring circ both com and comr equipmen student se	ults and diagnosing of electric mercial and domestic applico nercial heat load calculations it. This course provides essen eking future advancement in NR COND 808.	al problems found In ations and residential necessary in sizing of tial knowledge for a
			Recomme	nded Prerequisite: ECT 181.	
ENGLISH 386	ENGLISH AS A SECOND LANGUAGE, ADVANCED LEVEL 2	8 UNITS	ECT 260 Hours:	BASIC REFRIGERATION 2 Lecture/Discussion	2 UNITS
Hours:	7 Lecture/Discussion 3 Lab		An Introdu	i Lab uctory course in residential (alr conditioning and
who wanti speaking s Recomme	ced English as a Second L to Improve their English red kills. Formeriy ENGLISH 72 nded Prerequisites: 1)	anguage class for students ading, writing, listening and 28. Completion of English 385 est score on LES Placement	refrigeration theory. The trouble-ship proper bro	on that covers applied electri le students will learn how to us oot and diagnose electrical p azing techniques, tools and applied to various other trades	cal and refrigeration e electrical meters to roblems. In addition, safety practices are

ENGLISH

ENVIRONMENTAL CONTROL TECHNOLOGY

ECT 261 ADVANCED AIR 2 UNITS CONDITIONING & REFRIGERATION -COMMERCIAL & DOMESTIC Hours: 2 Lecture/Discussion

1 Lab

The advanced course offered in air conditioning and refrigeration that covers commercial and domestic air conditioning and refrigeration theory. The students will study the practical wiring circuits and diagnose electrical problems found in both commercial and domestic applications. The student will also become familiar with various types of electrical motors, and their individual characteristics. This course provides essential knowledge for a student seeking further advancement in his/her career. Formerly REFRIG 61.

ECT 262	HEATING SYSTEMS	2 UNITS
	AND CONTROLS	
Hours:	2 Lecture/Discussion	
	ì Lab	
Anadyan	ced course offered in residential and	dilabt-commerci

An advanced course offered in residential and light-commercial heating that covers theory, design, controls, and operation of modern day space heating systems. The students will study the practical wiring of circuits, and the diagnosing of problems found in both residential and light-commercial applications. In addition, the students will gain an understanding of both L.P. and natural gas fundamentals and applications, controls and safeties, with particular emphasis given to safe work habits and practices. This course provides essential knowledge for a student seeking further advancement in his/her career. Formerly AIR COND 62.

Recommended Prerequisite: ECT 260 or equivalent training/ experience.

ECT 263 COMMERCIAL REFRIGERATION 2 UNITS Hours: 2 Lecture/Discussion

An advanced course in commercial refrigeration for advanced students. The student will study the practical wiring of circuits, various defrosting methods, piping, design, sizing, and controls commonly used in the industry. This course provides essential knowledge for a student seeking further advancement in his/ her career. Formerly REFRIG 63.

Recommended Prerequisite: ECT 260 or equivalent training/ experience.

ECT 279 BASIC REFRIGERATION 4 UNITS AND HEATING THEORY, OPERATION, INSTALLATION & MAINTENANCE Hours: 3 Lecture/Discussion

3 Lab

The student will receive instruction and demonstration in the different means of heating and cooling residential and light commercial systems. The student will be exposed to various types of heating and cooling units used, typical applications, sequence of operation, installations, and proper maintenance procedures. Formerly AIR COND 79.

Recommended Prerequisite: ECT 181.

ENVIRONMENTAL CONTROL TECHNOLOGY

ECT 300 INTRODUCTION TO INDUSTRIAL AMMONIA REFRIGERATION Hours: 3 Lecture/Discussion

A practical course for the industrial Maintenance mechanic. The basic fundamentals of pressure, temperature and heat transfer will be covered as well as the specific uses, methods, components, systems and safety concerns associated with industrial refrigeration systems utilizing ammonia as the refrigerant. The student will have a good understanding of industrial refrigeration fundamentals and should, upon completion of this course, be able to achieve plant operator "B" certification (entry level) through RETA as well as laying a firm foundation for the operator "A" (Engineerlevel) certification. Formerly REFRIG 90.

Recommended Prerequisite: ECT 260 or 181 or past/presently employed by an industrial ammonia facility.



FASHION

FASH 76 TEXTILES Hours: 3 Lecture/Discussion 3 UNITS

3 UNITS

A survey of natural and man-made fiber classifications, methods of textile fabrication, and types of finishes. The selection of textile products for clothing and home furnishings related to consumer's intended use and characteristics of the product. Fulfills lower division requirement for textiles in four year schools. Formerly HEC 3. (CAN-HEC 6)

FASH COSTUMING 112a-b Hours: 2 Lecture/Discussion **3 UNITS**

3 UNITS

4 Lab

CROSS REF: Theater Arts 112a-b Materials Fee: \$5.00

A study of the principles and practice of costume construction from pattern to completed garments. Construction techniques, fabrics, basic patterns, wardrobe plotting, and historical styles. Additional hours required to work on crews for college projections.

FASH	MAKEUP
117a-b	2 Lecture/ Discussion
Hours:	4 Lab

CROSS REF: Theatre Arts 117a-b Materials Fee: \$10.00

This course is designed to introduce the student to the basic techniques and materials of makeup: theatrical, TV, photos, special occasions, business and evening. Topics include facial shape, hair arrangement, skin care and makeup for various races and skin types. Additional hours required to work on crews for college Theatre Arts and Dance productions.

FASHION FASHION FASH CLOTHING **3 UNITS** ADVANCED COLOR THEORY 2 UNITS FASH 168 160a-b CONSTRUCTION 2 Lecture/Discussion Hours. Hours: 2 Lecture/Discussion 1 Lab 3 Lab The advanced color theory course expands color's applications A study of the principles of clothing construction from pattern and investigates color uses in areas of student interest. Time is to completed garment. Emphasis on fabric performance, given to visual testing, research and development of skills aarment fit and various construction techniques for woven and valuable for planning a color related career. Field work helps knit fabrics. Designed for both beginners and experienced the student examine community and regional employment sewers. Open to all interested students. Formerly HEC 21a-b. possibilities. Formerly HEC 5B. (CAN-HEC 10 includes 160a only.) Prerequisites: Fashion 167 and Consumer/Family Studies Department Interview. FASH TAILORING **3 UNITS** 161a-b FASH 170 MODELING **3 UNITS** Hours: 2 Lecture/Discussion Hours: 3 Lecture/Discussion 3 Lab **CROSS REF: Theater Arts 170** A study of traditional and contemporary talloring techniques, An introduction to the modeling industry and the roles of including construction of a man's or woman's coat or suit models and agencies. Instruction will include experience in Jacket. Emphasis on garment fit, quality construction and basic fashion and photographic techniques; portfolio pattern selection. Open to all interested students. Formerly preparation; stage and photographic makeup; runway HEC 22a-b. techniques; posture, gesture and movement and participation in a fashion production. Students will also analyze and evaluate personal diet, nutrition and exercise, skin care and makeup. FASH CREATIVE **3 UNITS** PATTERN DESIGN 162 Hours: 2 Lecture/ Discussion FASH **FASHION ILLUSTRATION** 2 UNITS 174a-b 3 Lab A basic course in apparel design through the use of flat pattern Hours: 2 Lecture/Discussion techniques. Includes the design, drafting, and construction of 1 Lab garments. Open to all students interested in clothing design, CROSS REF: Art 174a-b especially fashion majors, those who are interested in sewing Fundamentals of fashion illustration, including a study of current for themselves and others, who may teach in the clothing area fashion ideals; drawing fashion proportioned figures and faces, rendering garment details, fabrics and accessories; familiarizing or who have fitting problems. Formerly 23A. Recommended Prerequisites: Clothing construction experience student with fashion publications; preparing illustration including layout, stylizing drawings, and matting drawings for presentation. helpful. Formerly HEC 25a-b. FASH ADVANCED 2 UNITS PATTERN DESIGN FASH 175 **FASHION IMAGE 3 UNITS** 163 Hours: 6 Lab Hours: 3 Lecture/Discussion An introductory course which offers both the fashion An advanced lab course in apparel design through the use of flat pattern techniques. Includes the design, drafting and merchandising major and the non-major, a means of exploring construction of garments. Formerly HEC 23B. the fashion world and discovering image dressing which is Recommended Prerequisite: Fash 162 or equivalent. appropriate for various lifestyles. Students study clothing selection sulted to the male and female physique and demonstrate personal selection skills based upon assessments of the personal image projection, color evaluation and figure FASH 167 APPLIED COLOR THEORY 2 UNITS analysis. Skills and topics include the use of art principles to 2 Lecture/Discussion make basic wardrobe plans, nutrition management, applied Hours: 1 Lab grooming alds, clothing maintenance, and shopping A study of color and its relationships to individuals and their techniques. Formerly HEC 20. (CAN-HEC 20) environments including interior design, advertising, fashion merchandising, floral design, etc. Contemporary color theories, color perceptions, color matching, and the development of a color nomenclature are included. Projects assist the student in developing a sensitive and discriminating eye for making color choices. Attention Is given to the selection of an individualized

152

color palette. Formerly HEC 5A.

FASHION

FASHION

FASHINTRODUCTION TO FASHION3 UNITS177MERCHANDISINGHours:3 Lecture/Discussion

This is an introduction to the production, distribution and consumption of fashion products. This study covers fashion terminology, fashion designers, fashion trends, manufacturers, retail outlets, marketing and career opportunities. The interrelationship of economics and social factors to the fashion industry are covered. It is required for the fashion merchandising, vocational certificate, the AA degree in Consumer/Family Studies with a fashion merchandising or fashion design major. Formerly HEC 27.

FASH178	VISUAL MERCHANDISING	3 UNITS
	AND PROMOTION	
Hours:	2 Lecture/ Discussion	
	3 Lab	

A study of the basic techniques needed for visual presentation of merchandise: Store windows and interior displays, as well as their coordination with sales promotion, will be studied. Fashion advertising and publicity will be analyzed. Required for the fashion merchandising vocational certificate, the AA Degree with a fashion merchandising major and the interior design major in Consumer/Family Studies. Formerly HEC 28.

FASH 179FASHION ANALYSISHours:2 Lecture/Discussion

2 UNITS

This course is a study of apparel and accessories from a psychological and sociological perspective. It includes the analysis of historical fashion cycles, cultural factors in dress, the relationship of social class, economics, government and religion to apparel and the relationship of clothing to behavior. This is a required course for the fashion merchandising, fashion design, and color/image consulting vocational certificates, and the AA Degree in Home Economics with a fashion merchandising major. Formerly HEC 29.

FASH 260 CAREER DRESSING Hours: 2 Lecture/Discussion CROSS REF: Bus 260

1 UNIT

2 UNITS

Designed for students who want to update, enhance, and improve their career appearance. Specific methods for the selection of clothing and accessories suitable for the working environment are presented. Excellent preparation for all students desiring to make the right impression for interviews and career changes. Career Dressing is a required course for the fashion design vocational certificates, and the AA degree in Consumer/Family Studies with a fashion merchandising major. Formerly HEC 75.

FASH PRINCIPLES 360a-d OF CLOTHING CONSTRUCTION Hours: 3 Lab

A skills-oriented class in clothing construction from pattern to completed garment. Emphases are garment fit, the use of construction techniques for woven and knit fabrics, efficient sewing techniques. Designed for both beginning and experienced sewers. Formerly HEC 70a-d.

FASH 361 COLOR SELECTION Hours: 3 Lecture/Discussion (18 total semester hours

(18 total semester hours)

The class features the development of a personal color palette through a systematic, organized process for the selection of individualized colors. The class includes a brief examination and comparison of contemporary color theories. Formerly HEC 77.

FIRE TECHNOLOGY

FIRE TEC* FUNDAMENTALS 154 OF FIRE SERVICE OPERATIONS Hours: 3 Lecture/Discussion **3 UNITS**

1 UNIT

Provides the student with the fundamentals of fire department organization, management, and resources, and emphasizes the use of those resources to control various emergencies. Formerly FIRE SCI 54.

FIRE TEC FUNDAMENTALS 3 UNITS 155 OF FIRE PROTECTION CHEMISTRY Hours: 3 Lecture/Discussion

Provides the student with fundamental information and knowledge of the physical and chemical characteristics of matter, fire, hazardous materials, and basic extinguishment theory. Formerly FIRE SCI 55.

FIRE TEC FIRE SERVICE HYDRAULICS 3 UNITS 156

Hours: 3 Lecture/Discussion

This is a fire suppression class which studies the theory of water at rest; in motion, under pressure and engineering principles of formulas and mental calculations dealing with hydraulic problems as related to the fire service industry. Formerly FIRE SCI 56

Prerequisites: Fire Tec 154 and Fire Tec 159.

FIRE TEC* FUNDAMENTALS 157 OF FIRE PREVENTION Hours: 3 Lecture/Discussion

3 UNITS

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. Formerly FIRE SCI 57.

FIRE TECHNOLOGY

FIRE TEC **INTRODUCTION TO** 159 FIRE TECHNOLOGY Hours: **3 Lecture/Discussion**

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. Formerly FIRE SCI 59.

FIRE TEC* S.F.M. FIRE 161 **PREVENTION 1A**

2 UNITS

3 UNITS

Hours: 40 Lecture/Discussion This 40-hour course provides fundamental Information regarding

the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes. identification and correction of fire hazards, and the relationship of fire prevention with fire safety education and detection and suppression systems. Formerly FIRE SCI 60A.

Prerequisites: Fire Tech 1, concurrent enrollment or equivalent.

FIRE TEC* S.F.M. FIRE PREVENTION 1B 2 UNITS 162

Hours: 40 Lecture/Discussion

This 40-hour course provides information regarding the methods 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. Formerly FIRE SCI 60B.

Prerequisites: Fire Technology 161.

FIRE TEC* WILDLAND FIRE CONTROL **3 UNITS** 165

Hours: 3 Lecture/Discussion

A course designed to provide the employed firefighter or fire science major with a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior and control techniques. Formerly FIRE SCI 66.

Prerequisites: Completion of Fire Science 54 or Fire Science 59.

FIRE TEC*	BASIC	9 UNITS
170	FIREFIGHTER I ACADEMY	
Hours:	108 Lecture/Discussion	
	132 Lab	
Manipulat	ive and technical training in havi	la concente in f

Manipulative and technical training in basic concepts in fire service organization and theories of fire control, including laws and regulations affecting the fire service personnel, and functions; fire organizations; principles of fire behavior; and the basic consideration in fire strategy and tactics. Formerly FIRE SCI 70.

FIRE TECHNOLOGY

FIRE TEC* S.F.M. FIRE 171 INSTRUCTOR 1A

SCI 71A.

2 UNITS

Hours: 40 Lecture/Discussion This 40-hour course is recommended for Fire Service personnel having training responsibilities within their fire department. Deals with such topics as: terms pertaining to instruction; supplementary Instruction sheets; concepts of learning; course development; lesson development; planning, organizing and managing instructional activities; teaching methods and teaching aids as they relate to teaching both manipulative skills and technical information in the fire service. Formerly FIRE

FIRE TEC* S.F.M. FIRE INSTRUCTOR 1B 2 UNITS 172

Hours: 40 Lecture/Discussion

This 40-hour course is recommended for Fire Service personnel having training responsibilities within their fire department. Deals with such topics as: terms pertaining to instruction; supplementary Instruction sheets; concepts of learning; course development; lesson development; planning, organizing and managing Instructional activities: teaching methods and teaching alds as they relate to teaching both manipulative skills and technical information in the fire service. Formerly FIRE SCI 71B.

Prerequisite: Fire Science 171.

FIRE TEC* **FIRE COMMAND 1A** 2 UNITS 173

Hours: 40 Lecture/Discussion

This 40-hour course provides the Company Officer with information and experience in command and control techniques at the scene of an emergency. The course emphasizes the act of commanding, the authority to command the personnel, and act under a commander. It is part of the performance requirements for a Fire Service Officer and Is taught in compliance with regulations and regulrements of the California State Fire Marshal's Office. Formerly FIRE SCI 72A. Preregulsites: Full-time employee of a fire department and completion of Fire Tec 154, or equivalent experience.

FIRE TEC FIRE COMMAND 1B 2 UNITS 174 Hours: 40 Lecture/Discussion

This 40-hour course provides the Fire Company Officer with information and experience in command and control techniques at the scene of a Hazardous Materials emergency. It is part of the performance requirements for a Fire Service Officer, Formerly FIRE SCI 72B.

Prerequisites: Fire Tec 173.

FIRE TECHNOLOGY

2 UNITS

O UNITS

FIRE TEC* FIRE MANAGEMENT I 177 Hours:

40 Lecture/Discussion

This 40-hour course is a review of the most important findings in modern industrial psychology and behavioral management, and then, very aulckly through the use of in-action exercises. simulations, and case studies, allows each student to experience how these basic principles can be effectively applied for onthe-job results. The emphasis throughout is on building practical skills that constitute the "how to's" of basic leadership. Formerly FIRE SCI 77A.

Prerequisite: Must have completed nine (9) units in Fire Science Program or currently employed by a fire department.

S.F.M. - NON AMBULANCE EMT FIRE TEC **4 UNITS** 240

Hours: 3 Lecture/Discussion

This course instructs the student in appropriate procedures of emergency care and an introduction in utilizing improvised and commercial tools safely in vehicle extrication. It meets the regulrements of the State of California and the State Fire Marshal's Office for EMT-1 Non-Ambulance/Fire Service. Satisfactory completion of this course enables the student to function in the Fire Service as an EMT-21 Non-Ambulance/Fire Service on an engine company. Formerly FIRE SCI 40. Prerequisite: Employment in the fire service.

FOSTER CARE

FOSTER DISCIPLINE C 400 Hours: 2 Lecture/Discussion (16 total semester hours)

A basic course in discipline for foster parents that will provide parenting skills and techniques needed to care for foster children in their care. Emphasis will be placed on the child's special needs, the possible problematic behaviors and the regulations within the protective service system. Formerly ECE 98B.

FOSTER C 401	WORKING WITH THE SYSTEM	0 UNITS
Hours:	2 Lecture/Discussion	

(32 hour course)

This course covers the very complex foster care system in California. It is designed to enable foster parents to more effectively and efficiently work within the system. The various agencies are studied and communication skills developed. This course is also valuable for any professional working with foster children, natural parents and foster parents. Formerly ECE 94.

FOSTER CARE

FOSTER DISRUPTIVE C 402 **BEHAVIOR** 2 Lecture/Discussion Hours:

O UNITS

(16 total semester hours) A study of disruptive behaviors including lying, stealing, agaressiveness and destructiveness, acting-out, bedwetting and others as found in foster children. The course provides training for foster parents and social service staff to Identify and intervene in these problematic behaviors. Formerly ECE 99.

FOSTER CHILD SEXUAL ABUSE CR 403 Hours: 2 Lecture/Discussion (12 total semester hours)

A study of sexual child abuse from five vantage points: the child, the legal system, the social service system, the parents and the mandated reporters. Content will include detection, intervention and prevention. Formerly ECE 98A.

	1 .
OSTER	SPECIAL NEEDS
2 404	
•	<u> </u>

O UNITS

O UNITS

O UNITS

O UNITS

Hours:

2 Lecture/Discussion 16 total semester hours)

A study of health problems as related to the foster child. Content includes information to enable the foster parent and social worker to identify and manage the child with special health needs resulting from abuse, neglect, abnormal prenatal development and genetic defects. Formerly ECE 95.

FOSTER ADULT CR 405 INDEPENDENT LIVING 7 Lecture/Discussion Hours: (28 total semester hours)

A course in Independent living for foster parents of youths ages 16-18. This course helps foster parents develop a mentor/ teacher role model to aid youths in learning independent living skills during their last one or two years in foster care. Foster parents learn to assess skills and plan for skill development.

YOUTH FOSTER INDEPENDENT LIVING **CR 406** Hours: 7 Lecture/Discussion (28 total semester hours)

A course in independent living for foster youths from ages 16-18 who need skills to leave foster care and live on their own (emancipated). The course helps develop the ability to assess skills, develop goals, develop a plan and develop skills in preparation for a very difficult, ambivalent developmental period. The foster parents of these youths are simultaneously training to facilitate this process.

FRENCH

FRENCH 1ELEMENTARY FRENCH 1Hours:4 Lecture/Discussion

4 UNITS

This course is committed to the use of French and French cultural aspects as the medium of instruction and to the four skills of understanding, speaking, reading and writing. It is the first semester course in a series of four. It introduces the student to the French sentence patterns and words that are found in basic everyday topics, activities, and culture.

FRENCH 2ELEMENTARY FRENCH 2Hours:4 Lecture/Discussion

4 UNITS

This course is committed to the use of French and French cultural aspects as the medium or instruction and to the four skills of understanding, speaking, reading and writing. It is the second semester course in a series of four. It also strengthens and broadens the student knowledge of topics, activities and culture of the French speaking world.

Perquisites: French 1 or two years of high school French or permission of department.

FRENCH 3 INTERMEDIATE FRENCH Hours: 4 Lecture/Discussion

4 UNITS

This course is the third semester course in a series of four. It is conducted in French. It is committed to the development of communicative skills in a cultural context. Reading, listening and writing skills are strengthened by the exposure to and the analysis of contemporary texts and French media sources. **Recommended Prerequisites:** French 2 or three years of high school French or permission of the department.

FRENCH 4 ADVANCED FRENCH Hours: 4 Lecture/Discussion

4 UNITS

French 4 is the fourth course in a series of four. Classes are conducted in French. The development and the acceleration of conversational skills are stressed within cultural contexts. The morphology and the syntax of the French language are studied in detail. Writing practice is intensive and related to contemporary culturo-socio-economical aspects of the French society. An overview of French literary genres is presented.

FRENCH 350 CONVERSATIONAL FRENCH I Hours: 3 Lecture/Discussion

2 UNITS

This is the first conversational French course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Very basic grammar points will be touched upon. Formerly FRENCH 50.

FRENCH

FRENCH 351 CONVERSATIONAL FRENCH II Hours: 3 Lecture/Discussion

This is the second conversational French course in a series of three for the student Interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Basic grammar points will be touched upon. Formerly FRENCH 51.

2 UNITS

3 UNITS

Prerequisite: Conversational Level I.

FRENCH 352 CONVERSATION FRENCH III 2 UNITS Hours: 3 Lecture/Discussion

This is the third conversational French course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Grammar points will be introduced as necessary for clear communication. Formerly FRENCH 52.A

Prerequisites: Conversational Level II.

FRENCH 353 CONVERSATIONAL FRENCH IV 3 UNITS Hours: 3 Lecture/Discussion 3 UNITS

This is the fourth conversational French course in a series of four for the student interested in speaking the language at a fluent level with an emphasis on survival and consumer skillis. Basic grammar points will be introduced as necessary for clear communication.

Recommended Prerequisites: Conversational Level III or permission of department.



GEOGRAPHY

GEOG 1 PHYSICAL GEOGRAPHY Hours: 3 Lecture/Discussion

An investigation and interpretation of weather, climate, vegetation, solis, land forms, oceans, and maps. An emphasis is placed on explaining the distribution of physical phenomena on the surface of the earth and the relationship between man and the natural environment. (CAN-GEOG 2)

Recommended Prerequisites: Eligible to enroll in Math 230 and English 1.

GEOGRAPHY

GEOG 2 WORLD REGIONAL GEOGRAPHY 3 UNITS Hours: 3 Lecture/Discussion

Aspects of physical and cultural geography such as landforms, climate, vegetation, soils, natural resources, demography, political and economic organization and urbanization are applied to various world regions. An emphasis is placed on understanding man-land relationships, promoting cultural awareness, and examining current world problems from a geographical perspective.

Recommended Prerequisite: Eligible to enroll in English 1.

GEOG 3 CULTURAL GEOGRAPHY Hours: 3 Lecture/Discussion

3 UNITS

A general background to cultural geography including topics such as population, cultural origins, settlement patterns, economic and political systems, resources, man-environment relationships, and map interpretations. An emphasis is placed on promoting cross-cultural understanding and examining current world problems from a global perspective. **Recommended Prerequisites:** Eligible for English 1.

GEOLOGY

GEOLOGY 1 PHYSICAL GEOLOGY Hours: 3 Lecture/Discussion 3 Lab

4 UNITS

A study of the physical activities that work to change the surface of the earth. Included are topics about stream activities, earthquakes, landsliding, shoreline hazards, groundwater contamination and depletion, and the formation of mineral deposits and their economic development. The concepts of plate tectonics will be integrated into the course. Formerly GEOLOGY 1A. (CAN-GEOL 2).

Recommended Prerequisites: Eligible to enroll In Math 230.

GEOLOGY 12 ENVIRONMENTAL GEOLOGY 3 UNITS Hours: 3 Lecture/Discussion

Astudy of man's geologic environment, Earthquakes, landslides, volcanic activity, and flooding will be studied. Emphasizes hazards, materials, energy and water resources, human interference with geologic processes and effects of urbanization, with particular reference to California. One or more optional field trips during the semester will be scheduled. **Recommended Prerequisites:** Eligible to enroll in Math 230.

GEOLOGY	FIELD GEOLOGY OF	.5	UNITS
351	A PORTION OF THE MOJAVE DESERT		
Hours:	2 Lecture/Discussion		
	8 Lab		
	10 Activity	÷	

A field trip course which introduces the student to a portion of the Mojave Desert from Tehachapi to Yermo, and that portion of the San Joaquin Valley from Visalla to Bakersfield. The course emphasizes the physical geology of the area and the interactions of man and his geological environment. NOTE: Graded on a credit/no credit basis. Formerly GEOLOGY 50A. **Co-requisite:** Concurrent enrollment in Geology 1 or Geology 12.

GEOLOGY

GEOLOGY FIELD GEOLOGY

O UNITS

352 Hours:

BETWEEN VISALIA AND THE CENTRAL CALIFORNIA COAST

: 3 Lecture/Discussion

2 Lab 5 Activity

A field trip course which introduces the students to a portion of California between Visalia and the Central California Coast and along the coast from Santa Maria to Cambria. The courses emphasizes the physical geology of the area and the interactions of man and his geological environment. NOTE: Graded on a credit/no credit basis. Formerly GEOLOGY 50B. **Prerequisite:** Concurrent enroliment in Geology 1 or Geology 12.



GERMAN 350 CONVERSATIONAL GERMAN Hours: 3 Lecture/Discussion

2 UNITS

This is the first conversational German course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival an consumer skill. Very basic grammar points will be touched upon. Formerly GERMAN 50.

GERMAN 351 CONVERSATIONAL GERMAN II 2 UNITS Hours: 3 Lecture/Discussion

This is the second conversational German course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Basic grammar points will be touched upon. Formerly GERMAN 51.

Prerequisite: Conversational Level 1 or permission of Instructor.

GERMAN 352 CONVERSATIONAL GERMAN III 2 UNITS Hours: 3 Lecture/Discussion

This is the third conversational German course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Grammar points will be introduced as necessary for clear communication. Formerly GERMAN 52.

Prerequisites: Conversation Level II or permission of instructor.



HISTORY

HIST 4 THE HISTORY OF WESTERN **CIVILIZATION TO 1648** Hours: 3 Lecture/Discussion

3 UNITS

History 4 "Western Civilization to 1648," Is the first of an optional two-semester course sequence which surveys the development of Western Civilization. Covering events from approximately 3000 BCE to 1648 CE, it defines "civilization" and traces how Institutions and ideas from the ancient Mideast, Greece, Rome, and medieval Europe came together by the middle of the seventeenth century to form a mature "Western" civilization. This course fulfills general-education requirements for CSU-Fresno and for the University of California, as well as most private liberal-arts colleges. It is recommended for all transfer students with college-level reading and writing skills. Formerly HIST 4A. (CAN-HIST 2)

Prerequisites: Eligible to enroll in English 1, or with counselor recommendation and department approval.

HIST 5 THE HISTORY OF WESTERN **3 UNITS CIVILIZATION SINCE 1648** Hours: 3 Lecture/Discussion

History 5 is the second of an optional two-course sequence which surveys the history of to modern world. It begins with a study of the rise of absolute dynastic states and commercial empires in the eighteenth century. Then it investigates the Impact of the French Revolution and the rise of the industrial economy on Europe in the nineteenth and first half of the twentleth century. And finally it describes the so-called Information revolution after the Second World War and suggests some of its possible consequences in light of previous historical patterns. This course fulfills general-education requirements for CSU-Fresno and for the University of California, as well as most private liberal-arts colleges. It is recommended for all transfer students with college-level reading and writing skills. Formerly HIST 4B. (CAN-HIST 4)

Prerequisites: Eligible to enroll in English 1, or with counselor recommendation and department approval. History 4 recommended.

THE PEOPLE OF THE UNITED STATES HIST 17 **3 UNITS** 3 Lecture/Discussion Hours:

A study of the people of the United States from earliest beginnings to the Reconstruction emphasizing the interaction of political, economic, and social factors in the evolution of American culture. Formerly HIST 17A. (CAN-HIST 8) Recommended Prerequisite: Eligibility for English 1.

HIST 18 THE PEOPLE OF THE UNITED STATES **3 UNITS** 3 Lecture/Discussion Hours:

A study of the people of the United States from Reconstruction to the present time emphasizing the interaction of political, economic, and social factors in the evolution of American Culture. Formerly HIST 17B. (CAN-HIST 10)

Recommended Prerequisite: Eligibility for English 1.

HISTORY

HIST 18H AMERICAN HISTORY THROUGH **4 UNITS** THE EYE OF FICTION

Hours: 3 Lecture/Discussion

A study of the people of the United States from 1865 to the present, emphasizing the interaction of political, economic, and social factors in the evolution of American culture. In addition, this course will emphasize the reflection of each era in the work of representative writers of each period. A one hour colloquium is also required for the fourth unit of credit. Formerly 17BH.

Prerequisite: Acceptance Into the COS Honors Program.

HIST 19 THE PEOPLE OF COLONIAL LATIN **3 UNITS** AMERICA Hours:

3 Lecture/Discussion

A comparative study of the culture and heritage of the people of Latin America from the Pre-Columbian period to the end of the wars for independence. Emphasis will be placed upon the social, political, and economic factors shaping the destiny of the countries of Latin American up to the 1850's. Formerly HIST 18A.

Recommended Prerequisites: Eligible for English 1.

3 UNITS HIST 20 THE PEOPLE OF LATIN AMERICA IN THE 19TH & 20TH CENTURIES Hours:

3 Lecture/Discussion

A comparative study of the culture and heritage of the people of Latin America from the 1850's to the present. Emphasis will be upon the social, political and economic factors shaping their destiny and role in today's world community. Formerly HIST 18B.

Recommended Prerequisite: Eligible for English 1.

THE PEOPLE OF MEXICO **3 UNITS** HIST 21 Hours: 3 Lecture/Discussion

A study of the culture and heritage of the people of Mexico from the Native American period to the present time with an emphasis on the social, political, and economic factors shaping their destiny in the world today. Through assigned reading, discussion, and writing, the students gain critical insights into the history and development of Mexico, as well as its literary, artistic, and sociopolitical contributions to world culture and civilizations.

Recommended Prerequisite: Eligible for English 1.

MEXICAN AMERICAN HISTORY 3 UNITS HIST 23 3 Lecture/Discussion Hours:

A study of the culture and heritage of the Mexican American people from the Native American period to the present time with an emphasis on the social, political, and economic factors shaping their destiny in American society.

Recommended Prerequisite: Ellaible for English 1.

HISTORY

HIST 31 THE PEOPLE OF CALIFORNIA Hours: 3 Lecture/Discussion

3 UNITS

4 UNITS

3 UNITS

A study of the people of California from the earliest Indian civilizations and subsequent white settlements right down to the present. An inquiry into the political, social, and economic institutions of California as a part of Spain, Mexico, and the United States. Open to both transfer and two-year students. **Recommended prerequisite:** Eligible for English 1.

HUMANITIES

HUMANITIES THE GREEK WORLD

. . .

Hours: 4 Lecture/Discussion

A study of the fundamental Ideas and values evolved in the Greek world from 4000 B.C. through the Hellenistic period and their reflection in mythology, literature, philosophy, and visual arts. Formerly HUMANITIES 10H.

Prerequisite: Admission to the Honors Program.

HUMANITIES THE WORLD OF LATINO-AMERICA 4 UNITS 102H

Hours: 4 Lecture/Discussion

A study of the fundamental Ideas and values evolved in Latin America, their ties with geography, and their expression in art, archaeological remains, historical records, and more recent oral traditions and literature. Formerly HUMANITIES 20H. **Prerequisite:** Admission to the Honors Program.

HUMANITIES INTRO TO HUMANITIES 301

Hours: 3 Lecture/Discussion

This is one of a series of courses designed to help students develop the competence and confidence necessary for successful college study in both academic and vocational courses. Introduction to Humanities is an introductory course in the visual arts which traces the development of Western civilization from Paleolithic times to the present. Although the course will focus on man's artistic creations, these objects are explored as reflections of their cultural contexts. Formerly ART 64.

Recommended Prerequisites: Must be enrolled in the SUCCESS program.

HUMAN DEVELOPMENT

HUM DEV PEER COUNSELING

Hours: 2 Lecture/Discussion 2 Lab

Human Development 22 focuses on Interpersonal communication and interaction skills within the setting of student-to-student advising: Emphasis is placed on communication in dyadic, group, and intercultural contexts. Counseling theories and research provide a foundation upon which to understand human behavior and appropriate intervention as Peer Advisors. Students will acquire skills important to the applications of general psychology to solve non-clinical academic, personal, and social problems while serving as assistants to faculty and paraprofessionals. Formerly HUMAN DEVELOP 22a.

Recommended Prerequisites: Completion of Psych 1 and English 251.

HUM CAREER DEV 251a-c AWARENESS

Hours: 2 Lecture/Discussion

1 UNIT

3 UNITS

This course provides an introduction to basic work characteristics and employment trends that expands the student's knowledge of present and future employment opportunities. It also exposes the student to different self-assessment inventories that relate to career/life planning areas. Formerly HUMAN DEVELOP 51a.

HUM SUPERVISED TUTORING 0 UNITS DEV 324 a-d

Hours: Up to 2 weeks per subject.

This course is designed to provide students with tutorial assistance. Tutees may work either individually or in small groups. They may work with computer programs developed specifically to meet their needs or they may work with tutors who have been recommended by faculty as having achieved a degree of proficiency in the area they are tutoring. Formerly HUMAN DEV 24.

HUMAN COLLEGE SUCCESS SKILLS 1 UNIT DEV 330

Hours: 1 Lecture/Discussion

This is one of a series of courses designed to help students develop competence and confidence necessary for successful college study in both academic and vocational courses. Human Development 330 is specifically designed to increase the student's success in college by assisting the student in obtaining skills necessary to reach his/her educational objectives. The skills covered in this course are meant to supplement the study skills covered in other precollegiate courses. The skills are introduced and reinforced primarily through discussion of topics which affect a student's progress and are instrumental in determining his/her success. Formerly HUMAN DEVELOP 30.

Prerequisite: Must be enrolled in SUCCESS Program or EOP&S student with permission of department.

HUMAN DEVELOPMENT

ним SUMMER COLLEGE **DEV 358 READINESS PROGRAM** Hours:

The Summer College Readiness Program provides students with the skills and necessary knowledge to become self-directed Individuals. Desired outcomes of the program are that students become independent thinkers capable of making intelligent choices, develop the self-confidence to participate in classroom activities, become conscientious in their study habits, and ultimately take the responsibility for their actions. Formerly HUMAN DEVELOP 58.

HUMAN SERVICES

HUM SER INTRODUCTION **3 UNITS TO SOCIAL WELFARE** 120 3 Lecture/Discussion Hours: A general survey of the social, economic, political, historical

and philosophic components in the development of social welfare programs. Major contemporary public assistance programs in the United States and California government are evaluated. Formerly HUMAN SERV 20.

HUM SER 121	INTERVIEWING	4 UNITS
Hours:	3 Lecture/Discussion 2 Lab	

Methods and techniques of interviewing. Emphasis is on obtaining social information, presenting social agencies, developing sensitivity and awareness of the needs, feelings and concerns of those being interviewed; developing skills and the use of interpreters. Special programs, problems in interviewing the children, the troubled and the aged. Formerly HUMAN SERV 21.

HUM SER INTRODUCTION **3 UNITS** 122 **OF HUMAN SERVICES** 3 Lecture/Discussion Hours:

A study of the uses of human services (social work) in meeting the social problems of the community. An examination in the field as a profession, along with a survey of the techniques of social case work is a method of intervention in personal, marital, inter-personal and community dysfunction. Formerly HUMAN SERV 22.

HUM SER ALCOHOLISM, INTERVENTION, 2 UNITS 228 TREATMENT, AND RECOVERY 2 Lecture/Discussion Hours:

This course provides knowledge about alcoholism and chemical dependency from a social clinical perspective. Emphasis is placed on programs for intervention, treatment, and recovery. Formerly HUMAN SERV 28.

HUMAN SERVICES

HUM SER PHYSICAL AND PSYCHOLOGICAL 2 UNITS 229 ASPECTS OF DRUG USE Hours:

2 Lecture/Discussion

This course explores physiological and psychological aspects of drug abuse and addiction; physical and psychological dependencies, psychological effects of commonly used drugs; and various methods of treatment and prevention. Formerly HUMAN SERV 29.



6 UNITS

INDUSTRY & TECHNOLOGY

3 UNITS

3 UNITS

1&T110 **BASIC MACHINING** Hours: 3 Lecture/Discussion 3 Lab

This is the first basic machining course for a machining major or a certificate program. This course will be a continuing study of the materials and their composition; the machines - with their safe and proper use; and, the skills for many of the techniques that may be used to manufacture a product. Formerly 1&T 10A. Recommended Prerequisites: Drafting 100 and 101. Permission of the department.

I&T111	MACHINING - MANUFACTURING	3 UNITS
	PROCESSES	
Hours:	2 Lecture/Discussion	
	4 Lab	

Industry and Technology 111 is the second semester course in the study of manufacturing processes, with the emphasis placed on the milling machine and its application via metal working processes within the metal working industry. Formerly I&T 10B. Recommended Prerequisites: 1&T 1 10 and Drafting 100.

1&T140 **GENERAL METALWORKING 3 UNITS** Hours: 2 Lecture/Discussion 4 Lab

Introductory course designed to study the fundamental techniques and processes involved in the design and construction of metal projects. Such areas as materials and manufacturing processes of sheetmetal, sheetmetal layout, soldering, heat treating, bench metal, art metal, wrought iron, foundry, forging and lathe work. Formerly I&T 40A.

l & T 142	AIR CONDITIONING
	SHEET METAL
Hours:	3 Lecture/Discussion
	3 Lab
	3 Activity
Generalst	neet metal work Including bendlr

ng,shaping,soldering, riveting, and spot welding. Layout and fabrication of sheet metal fittings with basic hand tools of the sheet metal air conditioning trade. Formerly I&T 41. Prerequisite: Drafting 100.

			Cou	IRSE DESCRIPT	TIONS
·	INDUSTRY AND TECHN	OLOGY	1	INDUSTRY AND TECHNOLOG	Y
I & T 143 Hours:	ADVANCED AIR CONDITIONING DUCT SHEET 2 Lecture/Discussion	3 UNITS METAL	i & T 272 Hours:	ELECTRICAL WIRING, INDUSTRIAL 3 Lecture/Discussion	3 UNITS
Training in metal fittir heating) c of triangui Formerly 18	4 Lab the layout, fabrication, and ngs used in heating and air of luct systems and kitchen equi ation and true length line la	conditioning (cooling- pment. Development	The third in is recomm contractin knowledg i & T reside	a series of three electrical wiring cour ended for all students entering the fie g or maintenance technology. It e and experience gained through w ential and commercial class. Former tes: I & T 271 or approval of departm	eld of electrica bullds on the orking with the ily I&T 72.
		•			et d'andre
presented science a requireme treatmeni California I & T 221 Hours:	WATER TREATMENT FUNDAMENTAL 3 Lecture/Discussion hods for providing safe pub Main underlying concepts re introduced. Course fulfil nt and prepares student for operator certification ex Department of Health Service WASTEWATER TREATMENT FUNDAMENTALS 3 Lecture/Discussion	of mathematics and is specialized training grades 1 and 2 water am administered by es. Formerly I&T 20A. 3 UNITS	the motor The studen methods of ladder dia of industric precaution personnel Formerly 18 Recomme	ELECTRIC MOTOR CONTROLS 2 Lecture/Discussion 1 Lab e fulfills the necessary education and control field for an industrial maintenar int will learn the necessary codes for and installation. The student will learn grams from a sequence of operation al machinery at the same time prov ins necessary to make a safe opera and equipment is heavily stressed in &T 73. Inded Prerequisites: Basic electrical ar e. Computer literacy.	nce electrician r proper wiring how to design of various types Iding all safety tion. Safety of this course.
and Indus concepts fulfills edu with requir Water Re Wastewate	nods for removing pollutants trial wastewater are present of mathematics and science of cational point requirement red experience, qualifies stud sources Control Board (SWI er Treatment Plant Operator (M student for SWRCB WWTPO g kT 20B.	ted. Main underlying ire introduced. Course which, in conjunction dent to take the State RCB) grades I and II WTPO) exams. Course	the moto maintenar numbering controllers	ELECTRIC MOTOR CONTROLS - PROGRAMMABLE CONTROLLERS 1.5 Lecture/Discussion 1.5 Lab e fulfills the necessary education and r control field of programmable nce electricians. The student will lead g, wiring methods and programm The student will learn how to design la rd wired diagram or from a sequence	controllers for irn the coding, ning of motor idder diagrams
the electrician electrician state, and necessary and speck breaker po	RESIDENTIAL WIRING 3 Lecture/Discussion fulfills the necessary educative leal field for a person to be a. The student will learn all as a local electrical codes; put for branch circuits pertaining al outlets; how to install and mai anels, sub-panels, low voltage pool wiring. Formerly I&T 70.	become a residential pects of the national, roper wiring methods to lights, receptacies, intainservice entrance	Formerly I& Prerequisit permission I & T 275 Hours: I & T 275 is o is necessal	SOLID STATE FUNDAMENTALS FOR ELECTRICIANS 2 Lecture/Discussion 1 Lab 1 lecture/laboratory course in the elec ry for the industrial electrician. The stu devices and their uses. This course is cours	al controls with 2 UNITS tronic field that udent will learn
covers the will study nomencia units used	ELECTRICAL WIRING, COMMERCIAL 3 Lecture/Discussion actory course in commercial various phases of commercial blueprints, building code ture, building layouts, fasten in commercial construction. es: 1 & T 270 or approval of de	al wiring. The students es, wiring methods, ers, and various other Formerly 1&T 71.	of an exte persons d	nsive electrical trades program inter esiring to enter the construction or field. Formerly I&T 74.	nded for those
					161

INDUSTRY & TECHNOLOGY

1&T MAINTENANCE 300a-b Hours:

12 UNITS

TECHNICIAN - LEVEL I 10 Lecture/Discussion 20 Lab

Maintenance Technician Level I requires two semesters of 450 hours each to complete the certification regulirements. This employment oriented class will provide the student with knowledge and skill in the areas of: electricity theory and application, machine tool operation, welding, hydraulics/ pneumatics and refrigeration.

HOME MAINTENANCE 1 UNIT I&T 303 2 Lecture/Discussion Hours: 1 Lab

This 9-week course is intended to teach basic maintenance and simple repair jobs needed around a house. Safety in work habits for the home, use of tools, and storage of materials will be emphasized. Items to be covered are a tool kit for the home, how to measure, how to saw, types of fasteners, kinds of glues and adhesives, paints and other finishing materials, simple electrical problems, simple plumbing problems, maintenance and repair of door locks, patching plaster and sheetrock walls, detecting termites, dryrot and etc. Students will be able to bring in problems from their own home.

Prerequisite: Must be enrolled in SUCCESS Program.

I & T 351 **INDUSTRY AND TECHNOLOGY MATH** Hours:

2.5 Lecture/discussion

This is a class designed specifically for industry and Technology students. It provides a review of basic mathematical principals necessary for the various vocational fields. Includes both discussion and laboratory instruction. Utilizes use of the scientific calculator. Formerly 1&T 80.

INDEPENDENT STUDY

IND ST INDEPENDENT STUDY 151 IRANSFER STATUS

UNITS: Variable

2 UNITS

Hours: 54-162 Lecture/Discussion

The purpose of independent study is to provide an opportunity for students, under the direction of an Instructor, to participate in advanced individualized studies to supplement and enhance existing courses. Independent study requires a minimum of 54 hours of academic work per unit. Formerly 49A, B, C, and D under the disciplines of each department.

Prerequisite: Completion of all beginning level courses offered at COS or equivalent, in the selected subject area. In addition, the student must file an independent Study form through the Admissions office to obtain approval to enroll in Independent Study.

INDEPENDENT STUDY

IND ST **INDEPENDENT STUDY** 251 **NON-TRANSFER STATUS** Hours 54-162 Lecture/Discussion

The purpose of independent study is to provide an opportunity for students, under the direction of an Instructor, to participate In advanced individualized studies to supplement and enhance existing courses. Independent study requires a minimum of 54 hours of academic work per unit. Formerly 49A, B, C, and D under the disciplines of each department.

Prerequisite: Completion of all beginning level courses offered at COS or equivalent, in the selected subject area. In addition, the student must file an independent Study form through the Admissions office to obtain approval to enroll in Independent Study.

INSURANCE

INS 121 **PRINCIPLES OF INSURANCE** 3 Lecture/Discussion Hours:

3 UNITS

3 UNITS

UNITS: Variable

This is the first course in a three-semester program leading to the Certificate In General Insurance from the Insurance Institute of America (IIA) which is designed for persons who have a need of insurance contract knowledge. The first semester of study begins with an introduction to the concept of risks, methods of handling risks, and the various operation of Insurance companies. Formerly BUSINESS 21.

Recommended Prerequisite: Score equal to English 251 on the placement test.

INS 122 PERSONAL INSURANCE Hours: 3 Lecture/Discussion

This is the second course in a three semester program leading to the Certificate in General Insurance from the Insurance Institute of America (IIA) which is designed for persons who have a need for Insurance contract knowledge. The second semester of study addresses the personal loss exposures of individuals, how to identify these exposures, and the various insurance contracts used in the personal insurance field. Formerly BUSINESS 22.

Prerequisites: Business 121 and a score equal to English 251 on the placement test.

INTERDISCIPLINARY STUDIES

CROSS CULTURAL IS 101a-d

Hours:

2 UNITS

EDUCATION 2 Lecture/Discussion 2 Field Work (Activity)

This course is designed to acquaint students with cross cultural experiences with migrant children. It will consider the special needs of migrants and how they are addressed. Ways of working with the various age levels of migrant children will be explored. Philosophies and types of available cross-cultural programs will also be examined. Formerly EDUCATION 26a-d.

INTERDISCIPLINARY STUDIES

IS 102a-d STUDENTS IN GOVERNMENT 2 UNITS AND LEADERSHIP

2 Lecture/Discussion

Hours:

A course for members of the Executive Board of ASB for the study of the student body. constitution, parliamentary procedure, organizations, publicity, and finance, and the development of leadership qualities through participation in campus governance and administration of the student activities program.

Recommended Prerequisites: Election by the Associated Student Body or appointment by the membership committee of the Executive Board of the Associated Student Body.

INTERIOR DESIGN

INT INTERIOR DESIGN MATERIALS DES 121

3 UNITS

3 UNITS

3 UNITS

Hours: 3 Lecture/Discussion

Examination and application of various products and materials available to the professional interior designer in creating functional and aesthetically pleasing interior environments. Emphasis on presentation techniques, use of elements and principles of design, color theory and textiles, window treatments and other design materials. This course is appropriate for career oriented individuals or for persons interested in interior design in general. Formerly HOME EC 1.

INT INTERIOR DESIGN/HOUSING DES 122

Hours: 3 Lecture/Discussion

A study of the basic architectural skills used by the professional interior designer in the field of commercial/residential design. Emphasis given to space planning, lighting, electrical, furniture layouts and blueprint reading. This course is appropriate for career oriented individuals or for persons interested in designing their own home. Formerly HOME EC 2.

INT INTERIOR DES 124 DESIGN (14TH -20TH CENTURIES) Hours: 3 Lecture/Discussion

Hours: 3 Lecture/Discussion A stylistic survey of historical period style furniture designs. This course is designed to give the student a background of the

course is designed to give the student a background of the various period styles of furniture design from antiquity to present times. Students will research and discuss the influence that historical events had on period styles. Formerly HOME EC 4.

ITALIAN

ITALIAN 350 CONVERSATIONAL ITALIAN I Hours: 3 Lecture/Discussion

This is the first conversational Italian course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Very basic grammar points will be touched upon. Formerly ITALIAN 50.

ITALIAN 351 CONVERSATIONAL ITALIAN II 3 UNITS Hours: 3 Lecture/Discussion

This is the second conversational Italian course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Basic grammar points will be touched upon. Formerly ITALIAN 51.

Prerequisite: Italian 350 or permission of instructor.

ITALIAN 352 CONVERSATIONAL ITALIAN III 3 UNITS Hours: 3 Lecture/Discussion

This is the third conversational Italian course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Grammar points will be introduced as necessary for clear

Prerequisites: Italian 351 or permission of instructor.

JOURNALISM

JOURNAL 1 BEGINNING NEWSWRITING Hours: 3 Lecture/Discussion 2 Lab

communication, Formerly ITALIAN 52,

3 UNITS

A comprehensive approach to learning the fundamentals of newswriting. The course covers all phases of production of news and feature stories. Source development, interviewing techniques, and writing, organizing, and editing a story for publications, as well as the development of news judgment, will be covered. (C AN-JOUR 2).

Prerequisites: Qualification for English 1: a score of 25-35 in reading and 28-40 in English usage on assessment placement services for community colleges. Ability to type 35 words per minute, or permission of department.

JOURNAL 7 MASS COMMUNICATIONS Hours: 3 Lecture/Discussion CROSS REF: Polifical Science 7

3 UNITS

A survey course covering media of mass communications, newspapers, radio, television, magazines, book publishing, films, and the recording industry. Students will study strengths and weaknesses of each medium, as well as the major challenges to a democratic society including censorship, sensationalism, pornography, propaganda, and monopoly. The course focuses on the interrelationship of mass media and society. (CAN - JOUR 4).

3 UNITS

JOURNALISM

JOURNAL NEWSPAPER PRODUCTION **3 UNITS** LDRSHP **LEADERSHIP TRAINING 2 1 UNIT TRN 102** 103 a-d This course provides practical experience in all aspects of Hours: 1 Lecture/Discussion producing a newspaper through work on The Campus. Course **CROSS REF: Business 139** content includes writing, editing, page layout, headline writing, This class builds on Leadership Training 1. Students Interested in and general editorial development. Students should be advancing into leadership positions will be instructed in problem prepared to assist in the pasting up of the paper Tuesday solving techniques, which will be presented through lecture afternoon. Formerly JOURNAL 3. and case problem analysis. The presentation of motivation Prereguisites; Journalism 1 theories and a behavior modification project will add to the understanding of tools available to the leader to accomplish organizational goals. Methods of bringing about change in organizations and a presentation of authority, power, and JOURNAL EDITORIAL BOARD **2 UNIT** influence are integral parts of leadership coverage. Students 104 a-d will be instructed on how to present the best image in a job Hours: 2 Lecture/Discussion llab interview and each will be taken through the process of This course provided advanced experience in all aspects of preparing or updating their working papers. Formerly newspaper production. Students enrolled in the class are LEADERSHIP 2. editors for The Campus. The course includes instruction in Recommended Prerequisite: Leadership Training 101. leadership techniques, editing, page design, and the legal aspects of newsgathering. Formerly JOURNAL 4a-d Prerequisites: Journalism 1 and 103. Μ MATHEMATICS JOURN **PHOTO-JOURNALISM 2 UNITS** 110a-d Hours: 2 Lecture/Discussion MATH 15 COMPUTER SCIENCE I **3 UNITS** 2 Lab Hours: 3 Lecture/Discussion CROSS REF: Photography 110a-d introduction to structured programming and algorithm design Material Fee: \$10.00 - lab using the FORTRAN language, including data types, program A course designed for students who would like practical design, conditional control structures, looping, subroutines and publication experience and an opportunity to publish their functions. The emphasis will be on using the computer as a photographs in the school newspaper. Formerly JOURNAL 10. problem-solving tool. Formerly MATH 15A. (CAN-CSI 4) Prereguisites: Completion of Math 70 with a grade of "C" or better, or a successful score on the Mathematics Placement Test. LEADERSHIP TRAINING **COMPUTER SCIENCE II 3 UNITS** MATH 17 LDRSHP **LEADERSHIP TRAINING 1 1 UNIT** 3 Lecture/Discussion Hours: **TRN 101** introduction to structured programming and algorithm design 1 Lecture/Discussion Hours: using the Pascal language, including discrete and dynamic **CROSS REF: Business 138** data structures, program design, efficiency and testing, This class is offered to give students leadership training and is conditional control structures, looping, procedures and one of a sequence of classes designed to prepare them for functions, recursion, and search/sort algorithms. The emphasis leadership roles. Students learn to write Measurable Learning will be on using the computer as a problem-solving tool. Objectives, which is a means of establishing a plan of action Formerly MATH 15B. (CAN-CSI 12) leading to self-improvement and provides and understanding Prerequisite: Completion of Math 15 with a grade of "C" or of how to maximize learning opportunities on the job. Coverage better. of the organizational structure, the development of management thought, styles of leadership, discipline, communications, and the evaluation process provide a framework for the understanding of the responsibilities of a leader. Formerly LEADERSHIP 1.

.

MATHEMATICS

MATH 21 INTRODUCTION TO STATISTICS 4 UNITS Hours: 4 Lecture/Discussion 4

An introductory course in elementary probability and statistics for social science and physical science majors. It is also appropriate for those who wish to gain an understanding of data analysis and statistics. Topics include: graphic presentation of data, probability: probability distributions such as the binomial, Poisson, and normal distributions; Central Limit theorem; oneand two sample hypothesis tests and confidence intervals; simple linear regression and correlation, Chi-Square goodness offit and contingency analysis tables, and analysis of variance. Extensive use of computers will be made throughout this course. (CAN-STAT 2)

Prerequisites: Completion of Math 230 with a grade of "C" or better or an appropriate score on the C.O.S. Math placement test.

MATH 45 MODERN APPLICATIONS OF MATHEMATICS

Hours: 3 Lecture/Discussion

This course is designed to fulfill the CSU mathematics/ quantitative reasoning general education requirement. The emphasis is on providing an overview of the practical applications of mathematics as well as developing an appreciation of the history of mathematics and its role in understanding nature. It is designed particularly for nonscience majors. Three or more topics are chosen from among the following areas: management science; statistics; size, shape, and growth; geometry and measurement; computer science.

Prerequisite/Corequisite: Completion of Math 230 with a grade of "C" or better or an appropriate score on the COS Math Placement Test taken within three semesters which indicates mastery of intermediate algebra.

MATH 61 SURVEY OF CALCULUS 1 Hours: 3 Lecture/Discussion

3 UNITS

3 UNITS

A first semester course in a two semester sequence of differential and integral calculus for the business, Industrial technology, biology, or social science major. It is also appropriate for those interested in acquiring an intuitive understanding of calculus. Topics include algebraic, exponential and logarithmic functions; limits, differentiation, the differential, and definite and indefinite integrals. Applications include graphing, optimization, related rates and average value with many example of the utility of calculus taken from biology and economics. Formerly MATH 16A. (CAN-MATH 30)

Prerequisites: Completion of Math 70 with a grade of "C" or better or appropriate score on COS Mathematics Placement Test.

MATHEMATICS

MATH 62SURVEY OF CALCULUS 2Hours:3 Lecture/Discussion

3 UNITS

5 UNITS

A second semester course in a two-semester sequence in differential and integral calculus for the business, industrial technology, blology, or social science major. Topics include: differentiation and integration of the exponential and logarithmic functions and of trigonometric functions; further integration techniques; applications of the integral to biology and economics; the calculus of functions of several variables; differential equations; sequences and series; probability; approximation techniques in calculus. Formerly MATH 16B. (CAN-MATH 32)

Recommended Prerequisite: Completion of Math 61 with a grade of "C" or better.

MATH 70 PRECALCULUS

Hours: 5 Lecture/Discussion

This is a college algebra and advanced trigonometry course which proceeds at an intense pace. Topics include: functions and graphs, applications of functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry, right-triangle trigonometry and vectors, systems of equations, analytic geometry, and roots of polynomial equations. This course is intended for students planning to take calculus. Formerly MATH 4.

Prerequisites/Co-requisites: Completion of Math 154 with a grade of "C" or better, or appropriate score on the C.O.S. Math Placement Test taken within three semesters.

MATH 75 CALCULUS WITH ANALYTIC GEOMETRY 1 Hours: 5 Lecture/Discussion

5 UNITS

A first semester course in differential and integral calculus. Topics include limits, differentiation and integration of algebraic, trigonometric and transcendental functions. Application include: related rates, curve sketching, relative and absolute extrema, areas, volumes, arclength, area of surface of revolution, work, and fluid pressure. Math 75 is designed for majors including mathematics, science, and engineering. It is also appropriate for those individuals interested in mathematics related professional fields. Formerly MATH 5A. (CAN-MATH 18) **Prerequisites:** Math 70 (Precalculus) or appropriate score on the COS Math Placement Test taken within three semesters.

MATH 76 CALCULUS WITH ANALYTIC GEOMETRY 2

5 UNITS

Hours: 5 Lecture/Discussion

A second semester course in differential and integral calculus. Topics include logarithm and exponential functions, Inverse trigonometric and hyperbolic functions, techniques of integration, Improper Integrals and L'Hopital'srule, Infinite series, analytic geometry, polar coordinates and parametric equations, vectors and three-dimensional space. Applications include: exponential growth, first-order differential equations, numerical integration, Taylor series approximations to functions, arc length, vectors and projections of vectors. Math 76 is designed for majors including mathematics, science, and engineering. It is also appropriate for those individuals interested in mathematics related professional fields. Formerly MATH 5B. (CAN-MATH 20)

Prerequisites: Completion of Math 75 with a grade of "C" or better.

MATHEMATICS

CALCULUS WITH MATH 77 **3 UNITS ANALYTIC GEOMETRY 3** Hours:

3 Lecture/Discussion

This course is the third semester of the introductory calculus sequence. Topics covered include differentiation and Integration of vector-valued functions, partial differentiation, directional derivatives, Lagrange Multipliers, multiple integration with application to surface area, centroids and centers of gravity, and Green's, Stoke's, and Divergence Theorem. Math 77 is designed for majors including mathematics, science, and engineering. It is also appropriate for those individuals interested in mathematics related professional fields. Formerly MATH 5C. (CAN-MATH 22)

Prerequisites: Completion of Math 76 with a grade of "C" or better.

MATH 80 LINEAR ALGEBRA Hours: **3 Lecture/Discussion**

3 UNITS

Introduction to linear algebra including systems of linear equations, vectors, matrices and determinants, two- and threedimensional vectors, vector spaces, linear transformations, elgenvalues and elgenvectors, and canonical forms. Formerly MATH 11. (CAN-MATH 26)

Prerequisites: Completion of Math 76 or Math 62 with a grade of "C" or better.

MATH 81 **DIFFERENTIAL EQUATIONS** Hours: **5 Lecture/Discussion**

5 UNITS

An Introduction to the methods of solving of ordinary and partial differential equations including matrix solutions of linear systems, Laplace transforms, series solutions, difference equations, separation of variables in partial differential equations, boundary value problems and Fourier series. Formerly MATH 6. (CAN-MATH 24)

Prerequisites: Completion of Math 77 and Math 80 with a grade of "C" or better.

MATH 154 TRIGONOMETRY

Hours: **3 Lecture/Discussion** **3 UNITS**

An intensive one-semester course in the elements of trigonometry including: trigonometric functions, solving triangles for unknown parts, proving and applying identities, graphing, solving trigonometric equations, and expressing and using complex numbers in trigonometric form. Formerly MATH 54. (CAN-MATH 8)

Prerequisites: Completion of Math 220 and Math 230 with a grade of "C" or better, or an appropriate score on the C.O.S. Math Placement Test within three semesters.

MATHEMATICS

MATH 210 ELEMENTARY ALGEBRA 1 Hours: 36 hr. Lecture/discussion per semester

2 UNITS

This is an intensive course in elementary algebra (part 1) covering fundamental operations, linear equations and inequalities, systems of equations, graphing, and word problems. Formerly MATH 51.

Recommended Prerequisite: Completion of Math 360 with a grade of "C" or better or an appropriate score on the COS Math Placement Test taken within three semesters.

MATH 215 ELEMENTARY ALGEBRA 2 2 UNITS Hours: 36 lecture/discussion per semester

This is an intensive course in elementary algebra (part 2) covering factoring, rational expressions, exponents, radicals, and word problems. Formerly MATH 51.

Prerequisite: Completion of Math 210 with a grade of "C" or better

MATH 220 PLANE GEOMETRY Hours: 3 Lecture/Discussion

3 UNITS

An intensive one-semester course in the elements of plane geometry covering rectilinear figures, the circle, similar figures, ratio and proportion and areas of plane figures. The logic and construction of deductive proofs will be emphasized throughout the course. It is designed for students who are deficient in high school geometry. Formerly MATH 52.

Prerequisite/Co-requisite: Completion of Math 210 & 215 with a grade of "C" or better, or an appropriate score on the COS Math Placement Test.

MATH 230 INTERMEDIATE ALGEBRA **4 UNITS** Hours: **4 Lecture/Discussion**

An intensive one-semester course in intermediate algebra covering: linear and quadratic equations and inequalities in one and two variables, operations with polynomials, rational expressions, exponents, radicals, logarithms, word problems and graphing. Formerly MATH 53

Prerequisites: Completion of Math 210 & 215 with a grade of "C" or better or an appropriate score on the C.O.S. Math Placement Test taken within three semesters.

MATH 360 PRE-ALGEBRA Hours: **4 Lecture/Discussion**

4 UNITS

A study of the fundamental operations with whole numbers, fractions, mixed numbers, decimals, and their use in applied problems. Other topics include factors and multiples, divisibility, ratio, proportion, introductory algebra, percent, metric units, geometric measurements, and signed numbers. All arithmetic topics will be taught with a pre-algebra perspective. Math 360 is a non-transferable arithmetic course to benefit students who need a firmer grasp of arithmetic concepts and skills. Formerly MATH 60.

Prerequisite: An appropriate score on the C.O.S. Math Placement Test taken within three semesters.

METEOROLOGY

METEOR 1 ELEMENTARY METEOROLOGY 3 UNITS Hours: 3 Lecture/Discussion 3 UNITS

An introductory course designed to provide insights into physical processes and laws that underlie the phenomena of weather and climate. Topics include solar radiation, temperature, humidity, condensation, precipitation, air pressure, wind, air masses, severe weather, forecasting, air pollution, atmospheric optics, and climatology. An emphasis is placed on understanding current meteorological-environmental problems by examining the relationship between man and the atmosphere.

Recommended Prerequisites: Eligible to enroll in Math 230 and English 1.

MUSIC

MUSIC 1 MUSIC FUNDAMENTALS Hours: 3 Lecture/Discussion

3 UNITS

This is a course designed for the non-major, the elementary or secondary school teaching credential candidate, and the music major who seeks remedial instruction prior to beginning the Comprehensive Musiclanship sequence. The basic elements of music are included: pitch and rhythm notation, scales, major and minor keys and key signatures, transposition, intervals, chords, elementary acoustics, and an introduction to the keyboard.

MUSIC 4 COMPREHENSIVE MUSICIANSHIP I 5 UNITS Hours: 5 Lecture/Discussion 5

Integrated approach to the study of music theory and the development of musical skills. This includes the study and analysis of melody, rhythm, and elementary harmony; and the development of ear training, sightsinging, and keyboard skills. The Integrated approach of this course is designed to encourage practical application of theoretical concepts. Formerly MUSIC 4A.

Recommended Prerequisites/Corequisites: Music 1 or the equivalent. Instrumental or vocal performance activity and/or class plano.

MUSIC 5 COMPREHENSIVE MUSICIANSHIP II 5 UNITS Hours: 5 Lecture/Discussion

integrated approach to the study of music theory and the development of musical skill. This includes the structural elements of music, primarily harmony and musical forms, and the development of ear training, sight singing, and keyboard skill. The integrated approach of this course is designed to encourage practical application of theoretical concepts. Formerly MUSIC 4B.

Prerequisite/Corequisite: Instrumental or vocal performance activity and/or class plano.

MUSIC

MUSIC 6 COMPREHENSIVE MUSICIANSHIP III 5 UNITS Hours: 5 Lecture/Discussion

Integrated approach to the study of music theory and the development of musical skill. This includes a historical-analyticalcompositional approach to the music of the 16th, 18th, and 19th Centuries—with an emphasis on the contrapuntal styles of Palestrina and Bach, and the chromatic harmony of the 19th Century—along with ear training, sightsinging, and keyboard musicianship. The integrated approach of this course is designed to encourage practical application of theoretical concepts. Formerly MUSIC 14A.

Prerequisite/Corequisites: Music 5 or the equivalent. Instrumental or vocal performance activity and/or classplano.

MUSIC 7 COMPREHENSIVE MUSICIANSHIP IV 5 UNITS Hours: 5 Lecture/Discussion

This course is designed primarily for music majors, and is the fourth semester in a 2-year program. (Music 4, 5, & 6 precede it.) Like these three earlier courses, it is an integrated approach to the study of music theory and the development of musical skills. Music 7 involves the formal analysis of the music of Haydn, Mozart, Beethoven, and others. Selected compositions by the following composers serve as models for student compositions: Wagner, Wolf, Debussy, Stravinsky, Bartok, Schoenberg, Webern; and the contemporary composers Cage, Reich, and Glass. The integration of the course is designed to encourage practical application of theoretical concepts. Formerly MUSIC 14B. **Prerequisites/Corequisite:** Music 6 or the equivalent. Instrumental or vocal performance activity and/or class plano.

MUSIC ORCHESTRATION 8a-b

3 UNITS

Hours: 3 Lecture/Discussion

Ranges, transpositions, technical capabilities, and idlomatic writing for the instruments of the orchestra. Analysis of 18th, 19th, and 20th Century scores, and assignments in scoring for selected instrumental combinations. Different topics will be covered and different projects will be assigned in alternate semesters so that the course may be repeated without duplication. Formerly MUSIC 17a-b.

Recommended Prerequisites: Music 4, 5 or equivalent.

MUSIC 10 APPRECIATION OF MUSIC HISTORY AND LITERATURE

Hours:

3 UNITS

3 Lecture/Discussion

Designed to aid the average student in developing a better understanding and an enjoyment of music. Includes (1) the elements of music, and (2) a chronological survey of music and composers from the Middle Ages to the present. No previous musical training is necessary.

1

MUSIC

IN OSIC		I	incore		
MUSIC 20 Hours:	PIANO I 1 Lecture/Discussion	1 UNIT	MUSIC 30a-b	VOICE	1 UNIT
nouis.	1 Lab		Hours:	1 Lecture/Discussion	
training. St music and repertoire student will such as sca	udents will learn specific Identify musical symbo by various composers I alsoperform finger/dext	as had no previous plano c skills enabling them to read ols on sight while performing in all periods of music. The erity skills in musical exegcises, wrist, hand muscles. Formerly	singing, de	1 Activity the technical, stylistic, and c ssigned to help the individuo develop solo vocal repert	Il student improve his/her
MUSIC 8A.			MUSIC	WOMEN'S CHORUS	1 UNIT
plano train to read m performing	ning. Students will learn iusic and identify musi g repertoire by various	1 UNIT had one semester previous specific skills enabling them cal symbols on sight while composers in all periods of	for treble emphasis blend, an	2 Activity -d offers a study and perform volces from the Renaisso on vocal production and to d musical precision and ac formance is required. Form	nce to Contemporary ne quality, balance and curacy. Participation in
musical ex at a higher	ercises to strengthen fin	orm finger/dexterity skills in ger, wrist and hand muscles and activity. Formerly MUSIC	MUSIC 34a-d		2 UNITS
8B. Pecomme		lc 20 or one year of private	Hours:	1 Lecture/Discussion 4 Lab	
plano.	nded Herequilie. Mus			<u>Fee: \$5.00</u>	
MUSIC 22a-d Hours:	INTERMEDIATE/ ADVANCED PIANO 2 Lecture/Discussion 1 Lab	I UNIT	literature f on vocal and music performa	n-d offers a study and the romthe Renalssance to Con production and tone qual cal precision and accuracy nce is required. Formerly M anded Prerequisites: Auditio	temporary with emphasis ity, balance and blend, r. Participation in public USIC 23a-d.
Designed		planist who has had prior			· .
instruction. read music also learn o plano thro country as Recomme plano instru	Students will learn spe and identify musical sy and acquire knowledge ugh different periods of well as foreign countrie nded Prerequisites: Mus uction.	eclfic skills enabling them to mbols on sight. Students will e of the development of the history to the present in our es. sic 21 or one year or more of	four mem singers of written es performa	CHAMBER SINGERS 5 Activity I-d a selected performing obers selected from the co fers the study and perform pecially for small ensemble ince is required. Formerly M tes: Music 34a-d. Audition	oncert choir. Chamber nance of choral music s. Participation in public USIC 42a-d.
MUSIC 23a-d	ORGAN I, II, III AND IV	1 UNIT			
Hours: Music 23a- at least on such as pla musical syr composers music. The musical exe and pedal and hand/ Recomme	e year private instruction ino, organ or accordior nbols on sight while perf s in the areas of theatre e student will also perfor ercises, such asscales an I keyboards, to strength (foot body muscles. Fo	yearkeyboard, eitherpiano,	concerts, orchestra wishing to schedule.	PERFORMANCE MUSIC 2 Lab neeinmusic activities such a or in groups ensembles and jazz ensemble. Hours participate but are unat Physical education credit te: Permission of departme	such as band, chorus, are arranged for those ble to meet the regular is not granted.

MUSIC

	MUSIC		• .	MUS	SIC
50a-d Hours:	STRING INSTRUMENTS 1 Lecture/Discussion	2 UNITS	MUSIC 74 a-đ Hours:	CONCERT BAND	2 UNITS
This course p string family Emphasis w bowing, teo d,	1 Lab provides beginning instruction on In- y. These include, violin, viola, co- rill be on care of instruments, to chnique, and playing position. Form ded Prerequisite: Knowledge o	elio, and bass. ne production, nerly MUSIC 7a-	A study of with specie general eff musiciansh required. I Recomme	al attention to interpi fect. Planned for tho hip. Some outside Formerly MUSIC 19a-1 nded Prerequisite:	ndard concert band repertory retation, tone, technique, and ise interested in improving their or public performances are d. Advanced musicians of band mission of department only.
52a-d Hours: A study and special atter effect. Pla musicianshi required. Fa Recommen instrument (STRING ORCHESTRA 2 Lab d performance of string orchestra ntionto interpretation, tone, techniq anned for those interested in ir p. Some outside or public per ormerly MUSIC 22a-d. ded Prerequisites: Musicians mus violin, viola, cello, or bass). Enrolim n of department.	ue, and general mproving their formances are t play a string	This course play a bar college in p of band lit events. E	ee: \$10.00 Is open to all studer ad instrument. The n bublic functions which terature at concerts mphasis is placed o	2 UNITS nots who demonstrate ability to narching band represents the nmayinclude the performance , parades, railies and athletic on the development of music
60a-d	BRASS INSTRUMENTS	1 UNIT	Prerequisit		IIIs. Formerly MUSIC 18a-d. In high school or equivalent or ment competently.
This course p brass family production, MUSIC 5a-d Recommen Instruments.	ded Prerequisite: Knowledge o	struments, tone osition. Formerly	performing football, v marching literature Recomme instrument	y in smaller groups at olleybali, etc.). This band and will occas Formerly MUSIC 16a- nded Prerequisites : <i>A</i> s. Marching Band is o	1 UNIT udents who are Interested In athletic functions (basketball, s class is an extension of the sionally use some of the same d. Advanced musicians of band a prereguisite and con-current Enrollment by permission of
This course p percussion f tone produc Formerly MU	ded Prerequisite: Knowledge o	e of instruments, playing position.	Materials F Chorus of	CHORUS OF THE SEQUOIAS 2 Activity Gee: \$5.00 the Sequoias is oper	1 UNIT In to all Interested singers. The erformance of choral literature
62 a-d Hours: This course p woodwind saxophone Instruments, technique o Recommen	WOODWINDS INSTRUMENTS 1 Lecture/Discussion 1 Lab provides beginning instruction on in- family. These include, flute, of and bassoon. Emphasis will b , tone production, embouchure and playing position. Formerly MU ded Prerequisites: Knowledge o	clarinet, oboe, be on care of development, SIC 3a-d.	from the Re on the maj	enalssance to Contern or choral works of the emporary periods.	porary with particular emphasis Baroque, Classical, Romantic, Evening rehearsals. Formerly
instruments.					

Course descriptions

MUSIC

	÷				
emphasize necessary Formerly M Recommer	REHEARSAL AND PERFORMANCE LAB 120 Activity le of the Sequolas Musical Theater to accompany in the production USIC 11a-d. Aded Prerequisites: Advanced musician s. Enroliment by permission of depart	ə technlques of a musical. nsoforchestral	in the reco professiono MUSIC 62a Recommer	NIGHT STUDIO BAND 3 Lab course which rehearses all types of r roling studio. Recording on tape al quality record will be a major p ed. aded Prerequisite: Prior experience tly play a jazz instrument.	s and making a roject. Formerly
MUSICNIGHT JAZZ ENSEMBLE1 UNIT92a-d1UNIT92a-dHours:3 LabHours:3 LabA study and performance of jazz ensemble repertory with special attention to interpretation, tone, technique, and general effect.This is a beginning, nontransferrable guitar cou- with limited musical experience. Students will le play melody lines which use the notes on all six written in simple rhythmic patterns. Students musicanship and improvisational skills. Some outside travel and public performances are required. Formerly MUSIC 58a-d.MUSIC 201 BEGINNING GUITAR Hours: 2 LabRecommended Prerequisites:Advanced musicans of jazz band instruments. Enroliment by audition or by permission ofMUSIC 201 BEGINNING GUITAR Hours: 2 Lab			earn to read and ix strings and are nust provide their erly MUSIC 2A.		
departmer	nt.		MUSIC 202 Hours:	INTERMEDIATE GUITAR 2 Lab	1 UNIT
MUSIC NIGHT 1 UNIT 94 a-d DANCE BAND Hours: 3 Lab Materials Fee: \$10,00 Astudy and performance of dance band repertory with special attention to interpretation, tone, technique, and general effect. Planned for those interested in improving their musicianship and improvisational skills. Some outside travel and public performances are required. Formerly MUSIC 60a-d. Recommended Prerequisites: Advanced musicians of Jazz band instruments. Enrollment by audition or by permission of department.		Music 202 is nontransferrable and designed to follow Music 201. Students will learn increasingly difficult melodies and chords in a variety of styles. Students will increase their knowledge of reading music which employs more complicated notes and more complicated rhythmic notation than in Music 201. Several accompaniment patterns will be used to teach fingerpicking and strumming patterns. Formerly MUSIC 2B. Recommended Prerequisite : Music 201 or ability to read and play simple melodies using all strings and ability to play chords in the first position or department's consent.			
			Hours:	ADVANCED GUITAR 2 Lab	1 UNIT
Experience in major mi	MUSICAL THEATRE PERFORMANCE 120 Activity : Theater Arts 20a-d, Dance 41a-d in drama and theater through active usical and dramatic productions. Ind ence in all facets of the theater. Fo	cludes training	varlous key be learned Recommen consent. MUSIC	Il learn increasingly difficult melodi s. Melodic and chord transposition I. Formerly MUSIC 2C. Inded Prerequisite: Music 202 c KEYBOARD ACCOMPANIMENT	to other keys will
MUSIC		2 HINITS	224a-d Hours:	2 Lecture/Discussion	
172a-d Hours: 1 Lecture/Discussion 2 Lab Materials Fee: \$10.00 A study and performance of jazz ensemble repertory with special attention to interpretation, tone, technique, and general effect. Planned for those interested in improving their musiclanship and improvisational skills. Some outside travel and public performances are required. Formerly MUSIC 21a-d. Recommended Prerequisites: Advanced musicians of jazz		This course in vocal, stri and chorus synthesizer duets beth (liturgical va Recommer	1 Lab involves small groups, such as solois ng, brass and the larger groups suc . Other items covered would be the and computer, musical theatre au ween plano/plano, plano/orga s. theatre). Formerly MUSIC 25a-d. aded Prerequisites: Music 34a-d.52 st one year or more of private Instr	h as a symphony e utilization of the ditions, as well as n, organ/organ 2a-d, 172, or 270.	
departmer	iments. Enrollment by audition or by ht.	permission of			

MUSIC

MUSIC

MUSIC SIGHT SINGING AND BASIC 1 UNIT 231 FUNDAMENTALS OF MUSIC 1 Hours: 1 Lecture/Discussion 1 1 Activity 1 Activity

A practical course in sight singing, aural perception, and rhythmic analysis including the study of notes/rests, scales, triads, key and meter signatures, intervals and musical terminology. Formerly MUSIC 44.

1 UNIT

MUSIC MADRIGAL DINNER 242a-d

Hours: 60 Activity

The Madrigal Dinner is an Elizabethan (Shakespearean/ Renaissance) Feast performed by singers, instrumentalists, actors, court jesters, mimes, tumblers, and others structured around a formal meal served in several courses announced by brass fanfares. Authenticity of music, drama, costuming, staging and all aspects of the performance is essential. A Christmas theme serves as the central focus of the dinner which is traditionally presented several evenings in late November and/or early December.

MUSIC	DIXIELAND B	AND	1 UNIT
270a-d			
Hours	2 lah		

A study and performance of Dixleland band repertory with special attention to interpretation, tone, technique, and general effect. Planned for those interested in improving their musicianship and improvisational skills. Some outside or public performances are required. Formerly MUSIC 20a-d. **Recommended Prerequisites:** Advanced musicians of Dixleland band instruments. Enrollment by permission of department.

MUSIC SEQUOIA WINDS 1 UNIT 295a-d

Hours: 2 Lab

A study and performance of standard symphonic band repertory with special attention to interpretation, tone, technique, and general effect. Planned for those interested in improving their musicianship. Some outside or public performances are required. Formerly MUSIC 64a-d.

Recommended Prerequisites: Sequoia Winds is open to all interested instrumental band musicians.

Ν

NURSING

10 UNITS

12 UNITS

NURSING REGISTERED NURSING THEORY

Hours: 6 Lecture/Discussion

12 Lab Materials Fee: \$15.00

This course is an introduction to the elements of patient care based on the nursing process. It emphasizes human needs related to communication, safety and comfort, mobility, nutrition, and growth and development. This course introduces the student to the meaning of nursing in health and disease. It includes studies of physical and mental health, interpersonal relationships, legal aspects of nursing and the principles and techniques of patient centered care. The student will give nursing care to selected patients, under supervision in the clinical area. Formerly NURSING 1.

Prerequisites: Biology 30, Biology 31, Biology 40, Chemistry 20, Nutrition 18, and English 1.

NURSING REGISTERED NURSING THEORY 102

Hours: 6 Lecture/Discussion 18 Lab

Materials Fee: \$15.00

Nursing 102 focuses on the patient and family in perinatal areas, pediatrics and oncology - particularly the gerontology patient. Lecture content includes discussion of disease entities unique to these patient populations, as well as methods to promote and maintain wellness. Regulation and maintenance of fluid and electrolyte homeostasis and acid-basis balance is also discussed. The student is expected to function as an adult learner and to do rigorous preparation for lecture/discussion. The clinical laboratory component includes the planning and delivery of primary care of perinatal, pediatric, oncology and gerontology patients in hospital, clinic, and home settings. Formerly NURSING 2.

Prerequisites: Successful completion of Nursing 101 and Nursing 122 (Physical Assessment).

NURSING REGISTERED 103 NURSING THEORY Hours: 6 Lecture/Discussion 18 Lab

12 UNITS

Materials Fee: \$15.00

This third semester course is a study of the nursing process centered around patient needs related to safety and comfort, sexual expression, altered regulatory mechanisms of the cardiopulmonary systems and gastrointestinal-genitourinaryrenal systems. Formerly NURSING 3.

Prerequisites: Nursing 102, Nursing 122 or Licensure as a Vocational Nurse.

NURSING

NURSING NURSING **NEUROLOGICAL/PSYCHIATRIC 13 UNITS** NURSING AND LEADERSHIP AND 122 104 NURSING MANAGEMENT Hours: Hours: 6 Lecture/Discussion 21 Lab Material Fee: \$15.00 This fourth semester Registered Nursing course is a study of the nursing process centered on the human needs of Individuals, with a focus on regulatory and activity mechanisms, safety and comfort, and emotional integrity. It also focuses on the study of management and leadership principles with skills integrated into practice while utilizing the nursing process. Formerly NURSING 4. Prerequisite: Nursing 103 **3 UNITS** NURSING CULTURAL DIVERSITY IN 106 **HEALTH AND ILLNESS** Hours: 3 Lecture/Discussion This course in designed to introduce basic concepts of culture, language and communication, social organization, social Interaction and change as they relate to the health care field. NURSING Focused upon the client (Individual, family or social aroup), the 125 course investigates values, beliefs, and customs as they effect Hours: health and Illness behaviors. Formerly NURSING 6. NURSING PHARMACOLOGY 2 UNITS 110 Hours: 2 Lecture/Discussion NURSING 25. This course is the study of pharmacologic agents, their action, uses, and implications for the professional nurse. Topic areas will include the pharmacodynamics, pharmacokinetics, dosages appropriate for various age groups, uses, side effects, nursing actions and drug interactions for the following drug categories: steroids, narcotic and non-narcotic analgesics, 127 non-steroidal anti-inflammatory drugs, hypnotics, anti-infectives, and antineoplastics. Also discusses are the skills and techniques Hours: necessary to deliver intravenous fluids. Formerly NURSING 10. Prerequisites: Successful completion of Nursing 101 and Nursing 122. NURSING PERIOPERATIVE **6 UNITS** 120 NURSING 4 Lecture/Discussion Hours: 24 Lab NURSING This is an elective course in perioperative nursing. This course is 134 designed to prepare a competent and knowledgeable practitioner to administer optimum care to select surgical patients during pre-operative, intra-operative and post-Hours: operative phases of surgical intervention. Formerly NURSING 20. Recommended Prereguisite: Nursing 101 and 122.

NURSING

3 UNITS

6 UNITS

FOUNDATIONS OF

NURSING PRACTICE 2 Lecture/Discussion 2 Lab 1 Activity

Based on a human needs approach, this course is a guide to the foundations of nursing practice. Nursing practice is implemented through the nursing process, which is a systematic method of problem solving used to Identify individual needs of clients. The course emphasizes the assessment phase of the nursing process, incorporating both interviewing and physical assessment. Interviewing includes taking the health history as well as therapeutic communication. Physical assessment is accomplished by a review of anatomy and physiology of the human body, and techniques of the physical examination with emphasis on recognition of normal parameters. The acaulsition of these abilities leads the student to the development of nursing diagnoses.

Prerequisites: Biology 30, Biology 31 and acceptance into Registered Nursing Program.

CARE OF THE PATIENT IN ICU 4 Lecture/Discussion 24 Lab

This course is a study of nursing intervention focused on the needs of the critically III patient in an intensive care unit. The principles related to the patient's cardiac, respiratory, neurological and emotional needs will be stressed in coordination with actively caring for this type of patient. Formerly

Prerequisites: Nursing 103 or permission of the department. Licensure as a Vocational Nurse.

6 UNITS NURSING ONCOLOGY NURSING

4 Lecture/Discussion 24 Lab

This course is designed to increase student understanding of the patho-physiologic process of cancer and the psychosocial effect upon the client and family. The student will utilize the nursing process to plan and implement individualized care of the oncology client. Formerly NURSING 27. Prerequisite: Nursing 101.

MENTORSHIP: TRANSITION FROM STUDENT TO NURSE **1 UNIT**

1 Lecture/Discussion

This course is designed for the Registered Nurse who wishes to prepare for clinical teaching and supervision of senior nursing students in a mentorship role. It involves the study and application of principles of nursing and teaching/learning theory, to guidance and evaluation of the student nurse's clinical practice. Formerly NURSING 34.

Prereauisites: Realstered Nurses with a minimum of one year experience in acute care, that have or will serve as mentors to C.O.S. Nursing IV students.

NUTRITION/FOODS

NURSING

NURSING 321GENERAL MATHEMATICS RELATED TO NURSING Hours:3 UNITS321RELATED TO NURSING Hours:3 Lecture/DiscussionThis course focuses on the development of skills in arithmetic, algebra and geometry foruse in nursing applications. Selected topics from consumer mathematics, graphing, the metric system, statistical measurement will be included. Emphasis is placed on calculation of medication problems with clinical application. Formerly NURSING 21.	NUTR/NUTRITION3 UNITSFOOD 18Hours:3 Lecture/DiscussionA scientific study of the basic chemical, biological and physiological principles and concepts of human nutrition. Current scientific theories and research are reviewed, clarified and discussed as these trends apply to the development of sound and preventive nutrition practices. The study includes the adapting of these principles to the Individual's uniqueness and the translation of this knowledge into food choices throughout life. Formerly NUTR 18. (CAN-HEC 2)
NURSINGINTRAVENOUSI UNIT333THERAPY CERTIFICATION CLASSHours:I Lecture/Discussion3 LabThis course is designed to prepare Licensed Vocational Nursesto initiate and maintain intravenous therapy in a clinical agencywhich has protocols to provide for such function. It includestheory, laboratory practice, and supervised clinical practice inIV therapy techniques. Formerly NURSING 33.Prerequisite: Must be a licensed Vocational Nurse employed inan agency with an inservice Education Department.	NUTR/FOODS3 UNITSFOOD 101Hours:2 Lecture/Discussion 3 LabMaterials Fee:\$10.00A study and application of the basic principles of food preparation, the development of the ability to plan, purchase, prepare and serve attractive, well balanced individual and family meals, with emphasis on conserving time, money, energy, and nutritional needs. Formerly HOME EC 10A. (CAN-HEC 8)
NURSING 405CARDIOPULMONARY RESUSCITATION5 UNITS405RESUSCITATIONHours:4 Lecture/Discussion 14 LabThis 18 hour course is designed according to the standards of the American Heart Association to teach the student to recognize signs and symptoms of cardiopulmonary arrest and to appropriately implement CPR. Successful completion of this course certifies the student in basic CPR. Formerly NURSING 5.	NUTR/FOODS2 UNITSFOOD 102Hours:1 Lecture/Discussion 3 LabMaterials Fee:\$10.00A foods class designed for students with basic food preparation skills. This course will explore a wide range of topics such as experimental cooking, entertaining, creative cooking, foreign foods, quantity cooking, and special dilets. Formerly HOME ECONOMICS 10B.
NURSING NURSING ASSISTANT 5 UNITS 451	
Hours: 3 Lecture/Discussion 6 Lab A course in basic patient care, including principles and practice in providing for patient needs of safety and comfort, personal hygiene and protection. The student will practice the role of the nursing assistant in a supervised clinical situation. Introductory material related to ethics, communication, nutrition, socialization, and rehabilitation will also be presented. Basic anatomy and physiology will be integrated throughout the course. The course will fulfill requirements for California Nursing Assistant Certification. Formerly NURSING 51.	NUTR/ COMMERCIAL FOODS I 3 UNITS FOOD 105 4 Lab 3 This class is designed for students who wish to prepare for employment and careers in restaurant, institutional and hotel settings. The curriculum provides an orientation to the food service industry with training and hands-on experience in the preparation of salads and vegetables, breakfast dishes, grilled foods, meats, soups and sauces, as well as dining room service and kitchen management. The course also includes training in employability skills such as interviewing, resume writing and human relations at work. Formerly HOME EC 15A.

I

NUTRITION/FOODS

NUTR/ NUTR/ **COMMERCIAL FOODS II 3 UNITS** FOOD 106 **FOOD 203** 2 Lecture/Discussion Hours: Hours: Alah This course is designed so that performance standards meet employer expectations and enhance students' lob market value so that they can be matched to reasonable employment prospects. Students will demonstrate proficiency in a number of food service skills such as food presentation, sauces, meat cookery, baking and specialty cuisine. Formerly HOME EC 15B. 0 NUTR/ **SANITATION & SAFETY 1 UNITS FOOD 107** Hours: 18 Lecture/Discussion OH 2 Basic concepts of sanitation and safety and their application Hours: in the food service industry. Federal, state and local regulations. Formerly HOME EC 14. OH 2A. NUTR/ **CHILDREN'S NUTRITION 3 UNITS FOOD 112 3 Lecture/Discussion** Hours: A survey course of children's nutritional regulrements. This course focuses on children's nutrition prior to conception through adolescence. Study centers on nutrition basics, feeding principles, and current topics. Fulfills three units toward the California State Children's Center permit. An appropriate course for students In education and social services. Formerly HOME EC 12. OH 2B NUTR/ NUTRITION FOR FITNESS, 2 UNITS FOOD 119 EXERCISE, AND SPORTS Hours: 2 Lecture/Discussion Cross Ref: PE 119 This course is designed to acquaint students with the nutritional needs of physically active persons. Topics include special nutritional needs, evaluation of current information and application of personal food choices. Open to all students interested in the relationship between nutrition, exercise and total fitness. Recommended for those Interested in recreational and competitive sports. Formerly NUTR 19. **TOPICS IN FOODS** NUTR/ **1-4 UNITS** FOOD 199 AND NUTRITION Hours: 1-4 Lecture/Discussion The application of food and nutrition principles to the specific needs of certificated programs, state-mandated certification and community interests. Each section covers a different topic dependent on need. Formerly HOME EC 90a-d.

NUTRITION/FOODS

MODERN MEALS 1 Lecture/Discussion 2 UNITS

3 UNITS

3 Lab Materials Fee: \$10.00 Basic meal planning and preparation to meet the needs of individuals and families. Emphasis on economy, efficiency, nutrition and attractiveness. Open to all interested students. Formerly HOME EC 60.

ORNAMENTAL HORTICULTURE

PLANT IDENTIFICATION 1 3 Lecture/Discussion Hab

Ornamental Horticulture 2 is a detailed study of tress, shrubs, vines, herbaceous plants, and their Identification. This course consists of two sections of different planting materials. Formerly

OH 3	PLANT IDENTIFICATION 2	3 UNITS
Hours:	3 Lecture/Discussion	
	llab	

Ornamental Horticulture 3 is a detailed study of trees, shrubs, vines, herbaceous plants, and their Identification. This course consists of two sections of different planting materials. Formerly

Recommended Prerequisites: OH 2.

OH 7	LANDSCAPE DESIGN	3 UNITS
Hours:	3 Lecture/Discussion	
	llab	

Materials Fee: \$5.00

OH 7 is an ornamental horticulture class that teaches the basic principles of landscape design as applied to residential, industrial, and public properties. The basic course in landscape design is appropriate for transfer students and two-year majors. Formerly OH 6.

Recommended Prerequisite: OH 106

OH 101	BASIC ORNAMENTAL HORTICULTURE	3 UNITS
Hours:	3 Lecture/Discussion	
	1 Lab	

Materials Fee: \$5.00

This course is an introduction to ornamental horticulture and the basic skills used in the landscaping, turf management, and nursery fields. Formerly OH 1.

			COL	RSE DESCRI	PTIONS
	ORNAMENTAL HORTICUL	TURE	Ì	ORNAMENTAL HORTICUL	TURE
propagat budding. fruit and a Recomme	PLANT PROPAGATION 3 Lecture/Discussion 1 Lab Fee: \$5.00 Clence course that studies the p ion by seed, cutting, layering, divi The primary focus of this course is t rnamental plans. Formerly OH 4. ended Prerequisite: One of the for nace 12 or 113, or Biology 21.	sion, graffing, and he propagation of	OH1111sc floristry the general c	FLORAL DESIGN 2 Lecture/Discussion 2 Lab Fee: \$50.00 In Introductory lecture and lab co at covers the various phases of fl ourse for a two-year certificate an limited to agriculture majors. For	oral design. It is a id transfer students
This course used in cre symbols, le designing Sketching	LANDSCAPE DRAFTING 3 Lecture/Discussion 1 Lab Fee: \$5.00 teaches the basic drafting technic pating landscape designs. Studen effering styles and techniques as w landscape plans using section an and the use of drafting equipment tectural fields are also stressed. Fe	ts learn landscape vell as methods of d detail drawings. ht from landscape	Ornamen certificate certificate offlowers hospital a	SYMPATHY FLOWERS 2 Lecture/Discussion 2 Lab Fee: \$50.00 tal Horticulture 112 is a course a students. It is a requirement for b, OH 112 teaches the advanced pecifically for sympathy work, cash rrangements and solid work. For ended Prerequisites: OH 111.	the floral Industries styling and design (et sprays, wreaths,
A basic co year hortic construction	LANDSCAPE CONSTRUCTION 3 Lecture/Discussion 1 Lab Fee: \$5.00 purse in ornamental horticulture for culture majors that teaches the on as they relate to landscape ince of landscape plants. Former	fundamentals of design and the	Ornament students. OH 113 tea carry, as complete decoratio	WEDDING FLOWERS 2 Lecture/Discussion 2 Lab Fee: \$50.00 Tal Horticulture 113 is a course for 2-y it is a requirement for the Floral In- aches advanced styling of floral d practiced specifically in wedding coverage of wedding bouquets ns, balloons and bouquet decor. anded Prerequisites: OH 111.	dustries certificate. esigns to wear and 1g work, including 1, corsages, church
landscape and highw	LANDSCAPE MAINTENANCE 3 Lecture/Discussion 1 Lab Eee: \$5.00 a lecture and lab course on the of homes, parks, schools, golf a ray plantings. The students study pr pest control and landscape mana	ourses, plus street uning, fertilization,	horticultur centers, fi retail outle to wholes	HORTICULTURE INDUSTRIES TOUR (Northern California) 3 Lecture/Discussion tal Horticulture 114 is a field tr e outlets and the industries that sur ower shops, foundation and dis ots and public educational facilitie alers, jobbers, display houses, ad s working with retailers are include	ip to ornamental oplythem. Garden olay garden with s are studied. Visits vertising agencles
An introdu includes se	TURFGRASS MANAGEMENT 3 Lecture/Discussion 1 Lab Fee: \$5.00 Juction to the field of turfgrass m election and use of turfgrass variet a areas, golf courses, and home lay	les for use in parks,	horticultur centers, fl retail outle to wholes	HORTICULTURE INDUSTRIES TOUR (Southern California) 3 Lecture/Discussion 1 Lab tal Horticulture 115 is a field tr e outlets and the Industries that sup ower shops, foundation and dis ts and public educational facilitie alers, jobbers, display houses, ad working with retailers are included	ip to ornamental oplythem. Garden olay gardens with s are studied. Visits vertising agencles
					175

ORNAMENTAL HORTICULTURE

OH 116" HORTICULTURE INDUSTRIES TOUR 3 UNITS (Central California) Hours: 3 Lecture/Discussion

Ornamental Horticulture 116 is a field trip to ornamental horticulture outlets and the industries that supply them. Garden centers, flower shops, foundation and display gardens with retail outlets and public educational facilities are studied. Visits to wholesalers, jobbers, display houses, advertising agencies and other working with retailers are included. Formerly OH 14C.

OH 118	XERISCAPE	3 UNITS
Hours:	3 Lecture/Discussion	
	1 Lab	
Materials	Fee: \$5.00	
A study o	and application of the priv	nciples and theories
landscape	e planning, designing, install	lation and maintenan

landscape planning, designing, installation and maintenance of wise use water management in large and small scale landscapes. Formerly OH 18. **Prereguisites:** OH 101 and OH 106

OH 119	INTERIORSCAPES	3 UNITS
Hours:	3 Lecture/Discussion	
	1 Lab	
Materials	Fee: \$5.00	

A study of the principals of residential and commercial interior design relating to plant materials for aesthetic purposes, is the main focus of this class. Formerly OH 19.

OH 400 Hours:	HOME VEGETABLE GARDENING 3 Lecture/Discussion	O UNITS
	1 Lab	

<u>Materials Fee: \$10.00</u>

OH400 is an introductory lecture course in small scale vegetable production. The students study plant selection, soils, fertilizers, and care, as well as methods of planting of irrigation and harvesting. This course is of great value to anyone who desires to learn proper techniques of home vegetable gardening. Formerly OH 17a-d.



PARA 101 INTRODUCTION TO PARALEGALISM Hours: 3 Lecture/Discussion

This required survey course is the initial course in a program designed to train the student for employment as a paralegal. The student is given basic knowledge of the role of a paralegal in the legal community, career opportunities, legal ethics, legal analysis including case briefing, introduction to the law library and exposure to various substantive and procedural areas of the law. Formerly PARA 1.

3 UNITS

Recommended Prerequisite: Paralegal 102 (co-requisite) and English 1 eligibility.

PARALEGAL

PARA 102 LEGAL TERMINOLOGY 1 UNIT Hours: 1 Lecture/Discussion A required course acquainting the student with legal terminology, concepts, and definitions. Formerly PARA 6. Recommended Prerequisite: Concurrent enrollment In Paralegal 101. PARA 103 CIVIL PROCEDURE 1 **3 UNITS** Hours: 3 Lecture/Discussion A required course designed to familiarize the paralegal student with the concepts of both California and Federal Civil Procedure and the stages of civil litigation. The student will be instructed In the use of standard Judicial forms. Formerly PARA 4A. Prerequisites: Paralegal 101. of PARA 104 CIVIL PROCEDURE II **3 UNITS** 3 Lecture/Discussion Hours: A second semester course which draws upon the basic concepts of civil procedure learned in Paralegal 4A to enable the student to learn to draft complicated civil pleadings, discovery devices, and extraordinary writs. Formerly PARA 4B. Prerequisites: Paralegal 101, 103, & 105. PARA 105 LEGAL RESEARCH **3 UNITS** AND WRITING I 3 Lecture/Discussion Hours: This required course is designed to familiarize the paralegal with the basic tools of researching both Federal and California law. The student will learn to locate authority relevant to particular cases and clearly and concisely write various legal documents and memoranda based on that research. Analysis and Interpretation of statutes and judicial opinions are also included. Formerly PARA 2A. Recommended Prerequisites: Paralegal 101 and 103. PARA 106 LEGAL RESEARCH **3 UNITS** AND WRITING II Hours: 3 Lecture/Discussion A second semester required course in advanced legal research and writing designed to expand the paralegal student's ability to perform more complicated legal research and legal analysis. Assignments include drafting points and authorities and appellate briefs. Formerly PARA 2B. Prereguisites: Paralegal 101, 103, and 105. PARA 107 CLIENT INTERVIEWING FOR **1 UNIT THE PARALEGAL** Hours 1 Lecture/Lab This required course will familiarize the student with interviewing techniques, ethical considerations for the interviewer, and methods of documenting and summarizing interviews. Formerly **PARA 21** Prerequisites: Paralegal 101, 103, 105, and concurrent enrollment in Paralegal Internship.

PARALEGAL

PARALEGAL

PARA 108 LAW OFFICE MANAGEMENT **1 UNIT** Hours: 1 Lecture/Discussion

A required course designed to train the student in the management of a law office. Content of the course includes law office organization, time keeping, and time management, accounting, scheduling, and calendaring, management of personnel, retrieval systems for law, other aspects of law office management for the efficient operation of a law office. Formerly PARA 3.

Prereguisites: Paralegal 101, 103 and 105 and concurrent enrollment in Paralegal 193, 194, 195, & 196.

PARA 130 TORLLAW Hours:

1.5 UNITS

1.5 Lecture/Discussion This elective course provides a broad overview of torts including intentional torts, neallaence and strict liability as well as defenses to the same. The student will learn to draft standard form complaints based on common tort theories. Formerly PARA 10. Prereauisites: Paralegal 101 and 103.

PARA 131 CONTRACT LAW Hours:

1.5 Lecture/Discussion

This elective course provides a general knowledge of what constitutes a contract, how to locate and utilize forms associated with contract lawsuits. Formerly PARA 11. Prerequisites: Paralegal 101 and 103.

PARA 132 WILLS, TRUSTS, AND PROBATE

Hours: **3 Lecture/Discussion** This is an elective course designed to familiarize the student with the legal aspects of wills, trusts, and probate. Included is the effect of death upon property ownership, community property and the drafting of forms associated with probate law. Formerly PARA 12.

Prereaulsites: Paralegal 101 and 103.

PARA 133 CORPORATE LAW Hours: 1 Lecture/Discussion

1 UNIT

1 UNIT

This elective course enables the paralegal to understand the corporate structure and gives special attention to the areas of agency, partnership, rights of stockholders, and the drafting of legal documents associated with these business entities. Formerly PARA 13.

Prerequisites: Paralegal 101 and 103.

PARA 134 REAL ESTATE LAW Hours: 1 Lecture/Discussion

This is an elective course covering practices and procedures of real estate and landlord-tenant law, including the drafting of legal forms used in these areas. Formerly PARA 14. Prerequisites: Paralegal 101 and 103.

PARA 135 BANKRUPICY

Hours: 1 Lecture/Discussion

This is an elective course which provides general knowledge of the types of bankruptcy, jurisdiction, bankruptcy court procedures, duties of bankrupts and trustees, and adversary proceedings. Formerly PARA 8.

Prereaulsites: Paralegal 101 and 105.

PARA 136 ADMINISTRATIVE LAW 1 UNIT Hours: 1 Lecture/Discussion

This is an elective course covering the practices and procedures of state and federal administrative agencies. Students learn to draft documents for use in agency proceedings. Formerly PARA 16.

Prerequisites: Paralegal 101 and 105.

PARA 137 FAMILY LAW Hours:

3 Lecture/Discussion

3 UNITS

1 UNIT

1 UNIT

1 UNIT

This is an elective course designed to familiarize the paralegal with California law relating to adoption, annulment, dissolutions, paternity, and community property. The student will become acquainted with the necessary forms related to dissolution actions. Formerly PARA 7.

Prerequisites: Paralegal 101 and 103.

PARA 138 ENFORCEMENT OF JUDGMENTS Hours:

1 Lecture/Discussion

This elective course will familiarize the student with methods of collecting money judgments. It will emphasize actual preparation of legal documents necessary to enforce money Judgments, Formerly PARA 23,

Prerequisites: Paralegal 101 and 103 or consent of department.

PARA 139 WORKERS

COMPENSATION LAW Hours 1 Lecture/Discussion

This is an elective course covering the practices and procedures related to workers compensation actions. Students learn to draft documents for use in this agency. Formerly PARA 19. Prerequisites: Paralegal 101 and 105.

PARA 197 PROFESSIONAL RESPONSIBILITY

1 Lecture/Discussion Hours

This required course is designed to assist the second year paralegal student make the transition from the classroom to the law office. The course coverse thics, regulation of paralegals, job realities, career opportunities, and advanced legal analysis. Prerequisite: Paralegal Cooperative Work Experience

1 UNIT

3 UNITS

1.5 UNITS

PHYSICAL EDUCATION

General Activities

P.E. 3g-d* PAR COURSE TRAINING FOR **1 UNIT AEROBIC FITNESS** 4 Activity Hours:

Par Course Jogging for Aerobic Fitness is designed for students who desire to improve their aerobic and strength. Each student will demonstrate through par course logging how to develop fitness by exercise in the following: flexibility, cardiovascular fitness, proper jogging techniques and strength, with the use of various exercise stations. Formerly PE 14a-d.

P.E.4a-d WEIGHT LIFTING **1 UNIT** Hours: 1 Lecture/Discussion 2 Activity

Introduction to the scientific and theoretical components of resistance training for transfer students. Inclusive of basic principles of strength development, body building, diet, nutrition and weight control. Based on the foundation of resistance prescriptions. Course will focus on barbells, dumbbells and machines as the vehicle for development of the major muscle groups. Proper mechanics of exercise and safety factors are stressed. Formerly PE 12a-d.

P.E. 12a-d ADVANCED BASEBALL **1 UNIT** Hours: .5 Lecture/Discussion 1.5 Activity

A physical education activity class for students who wish to gain advanced skills. Advanced skills in throwing, fielding, batting, and pitching a baseball will be taught and practiced. Formerly PE 26a-d.

Recommended Prerequisites: Recommendation of department.

P.E. 14a-d BASKETBALL **1 UNIT** Hours: .5 Lecture/Discussion 1.5 Activity

This course is designed for any student interested in the sport of basketball; both experienced players and those not familiar with the game are encouraged to take this class. Basketball is an enjoyable sport and provides yet one more way a student can become physically fit through competition. This class is coed, both men and women may enroll. Formerly PE 17a-d.

rules, and terms of the game of football. Formerly PE 42a-d.

P.E. 15a-d	FUNDAMENTALS	1 UNIT	fit through a	
	OF FOOTBALL		women may	
Hours:	.5 Lecture/Discussion			
	1.5 Activity	1		
An activit	ry class for students who wish	to gain advanced	P.E. 22a-d	
	kllis. The student will underst			5 Lecture/
advance	d fundamentals of plaving foot	tball, application of		5 Activity

PHYSICAL EDUCATION

General Activities

P.E.16*	CONDITIONING
	FOR FOOTBALL
Hours:	1 Lecture/Discussion
	2 Activity

The use of plyometric exercises to improve power and speed for football conditioning.

Recommended Prerequisite: Referral from the Department.

P.E. 18g-b BEGINNING GOLF 1 UNIT Hours: .5 Lecture/Discussion 1.5 Activity

A physical education activity class in golf fundamentals. Focus on understanding the basic fundamentals of playing golf, learning rules and terms of the game. Formerly PE 8a-d.

P.E. 19g-b ADVANCED GOLF Hours: .5 Lecture/Discussion 1.5 Activity

1 UNIT

1 UNIT

1 UNIT

A physical education activity class for students who wish to gain advanced golf skills. The student will understand and develop advanced fundamentals of playing golf, application of rules, and terms of the game of golf. Formerly PE 37a-d. Recommended Prerequisite: PE 18a-b or recommendation of department.

P.E. 20a-d RACQUETBALL .5 Lecture/Discussion Hours: 1.5 Activity

Designed for the student who is a novice and desires knowledge In history and strategy of racquetball. The student will learn all the rules, scoring and basic strokes to successfully play and compete in class participation. The student will learn basic strategy for single and doubles play. This class is not recommended for the highly skilled player. Formerly PE 23a-d.

P.E. 21a-d SOCCER Hours: .5 Lecture/Discussion

1.5 Activity

1 UNIT

1 UNIT

This course is designed for any student interested in the sport of soccer; both experienced players and those not familiar with the game are encouraged to take this class, ons of this game are thoroughly addressed. Soccer is an enjoyable sport and one more way a student can become physically on. This class is coed, both men and prmerly PE 4a-d,

D SOFTBALL Discussion

A physical education activity class for students to gain advanced softball skills. Advanced skills in throwing, fielding, batting and pitching a softball will be taught and practiced. Recommended Prerequisites: Recommendation of department.

PHYSICAL EDUCATION

PHYSICAL EDUCATION

General Activities	General Activities
P.E. 25a-d BASIC SWIMMING I UNIT Hours: .5 Lecture/Discussion 1.5 Activity Basic Swimming is a general introduction to swimming and aquatics. It is an appropriate class for the beginning swimmer who wants to learn aquatic fundamentals and received swimming stroke instruction in from crawi, back crawi, elementary backstroke, sidestroke, breaststroke and butterfly.	P.E. 34a-b BEGINNING 1 UNIT VOLLEYBALL Hours: .5 Lecture/Discussion 1.5 Activity Development of basic fundamental skills in volleyball through drills and play. Formerly 24a-b.
Formerly PE 34a-d.	P.E. 35a-b ADVANCED VOLLEYBALL 1 UNIT Hours: .5 Lecture/Discussion 1.5 Activity
P.E. 26a-d SWIMMING FOR FITNESS 1 UNIT Hours: .5 Lecture/Discussion 1.5 Activity A general introduction to swimming and aquatics. It is an appropriate class for the beginning swimmer who wants to learn acquatic fundamentals and receive swimming stroke instruction in front crawl, back crawl, elementary backstroke, sidestroke, breaststroke and butterfly. Formerly 9a-d.	A physical education activity class for students who wish to gain advanced volleyball skills. The student will understand and develop advanced fundamentals of playing volleyball, application of rules, and terms of the game of volleyball. Formerly PE 24c-d. Recommended Prerequisite: PE 34a-b or permission of department.
P.E. 30a-bBEGINNING TENNIS1 UNITHours:.5 Lecture/Discussion1.5 ActivityBegInning Tennis is an activity course designed for the studentwho wishes to develop an understanding and appreciation forthe game of tennis.Basic skills, strategies and rules will becovered.Formerly PE 10a-d.	P.E. 36 INTRODUCTION TO PHYSICAL EDUCATION 2 UNITS Hours: 2 Lecture/Discussion A A course of introductory nature designed primarily for those interested in becoming Physical Education Teachers, but presented in a format which will make it of value to anyone thinking about entering some areas of the teaching profession. Formerly PE 30.
P.E. 31a-b ADVANCED 1 UNIT TENNIS - MEN Hours: .5 Lecture/Discussion 1.5 Activity This course is designed for the advanced tennis player. It will prepare the student for tennis competition with physical fitness training and intra-class play. Formerly PE 22c-d. Recommended Prerequisite: PE 30a-b or permission of department. P.E. 32a-b ADVANCED 1 UNIT TENNIS - WOMEN Hours: .5 Lecture/Discussion	P.E. 41a-dMARCHING BAND2 UNITSHours:6 LabCross Ref:MUSIC 75a-dMaterials Fee:\$10.00This course is open to all students who demonstrate ability to play a band instrument. The marching band represents the college in public functions which may include the performance of band literature at concerts, parades, railles and athletic events. Emphasis is placed on the development of music performance and marching skills. Formerly PE 15a-d. Prerequisites: Prior experience in high school or equivalent or an ability to play a band instrument competently.
1.5 Activity This course is designed for the advanced tennis player. It will prepare the student for tennis competition with physical fitness training and intra-class play. Formerly PE 22a-b. Recommended Prerequisite: PE 30a-b or permission of department.	P.E. 95 FITNESS FOR SENIOR CITIZENS 0 UNITS Hours: 3 Activity This course is considered mild exercise and is basically designed for senior citizens. The course is geared to the needs of senior citizens, taking into consideration the limitations of all or certain individuals within a class. The course consists of various stretching, bending, twisting and leaning from different positions while sitting in a chair.

I.

PHYSICAL EDUCATION

General Activities Hygiene P.E. 117a-b THEORY OF 2 UNITS 2 UNITS **HYGIENE 1 PERSONAL HYGIENE** FOOTBALL 2 Lecture/Discussion Hours. 2 Lecture/Discussion A general course including the facts necessary for maintenance Hours This course is designed for the student with an interest in of physical and mental health. Special emphasis is given to the coaching football. Philosophy fundamentals, strategies, and use of drugs in our society including alcohol, tobacco, stimulants, rules will be emphasized. Formerly PE 79a-b. analgesic narcotics, and "over the counter" drugs. Total fitness, diet and weight control, environmental health safety, sexually transmitted diseases and effective family living are 2 UNITS P.E. 119 NUTRITION FOR among other subjects studled. FITNESS, EXERCISE, AND SPORTS 2 Lecture/Discussion Hours: Cross Ref: Nutr/Food 119 This course is designed to acquaint students with the nutritional HYGIENE 3 STANDARD FIRST AID 2 UNITS needs of physically active persons. Topics include special Hours: 2 Lecture/Discussion nutritional needs, evaluation of current information and Hygiene 3 covers the American Red Cross Standard First Ald course, including Cardlopulmonary Resuscitation (CPR), Safety application of personal food choices. Open to all students interested in the relationship between nutrition, exercise and Factors In Dally Living, Emergency Treatment for Various Types total fitness. Recommended for those interested in recreational of injuries and Emergency Childbirth, Certificate will be issued and competitive sports. Formerly PE 29. with a fee paid to the American Red Cross when requirements are met. INTRODUCTION AND 2 UNITS P.E. 137 THEORY OF COACHING Hours: 2 Lecture/Discussion **HYGIENE 7 SPORTS HEALTH** 2 UNITS Designed for the student wishing to gain knowledge of coaching 2 Lecture/Discussion Hours: Individuals and team sports. Common problems and solutions Using sport as the vehicle, this class covers the same basic will also be covered. Formerly PE 71. subject matter as hygiene 1. The effects of pain and stress on Recommended Prerequisite: English 251 or permission of performance are studied. Diet, weight control, fitness and department. exercise, genetics, and their influence on training are examined. The consequences of using alcohol, tobacco and anabolic sterolds and other drugs are explained in terms of their effects P.E. 142a-d VARSITY PERFORMANCE 2 UNITS on human performance. An understanding of the anatomy of Hours: 2 Lecture/Discussion common injuries and their treatment and prevention is **4** Activity developed. Varsity Performance is designed to enhance the performing skills of the Pep Squad and provide opportunity to prepare for support of all athletic teams. Formerly PE 82a-d. Prereaulsite: The member is chosen by election (ludges) in DRUGS AND SOCIETY 2 UNITS HYGIENE order to become a part of the C.O.S. Pep Squad. 104 2 Lecture/Discussion Hours: 1 Lab P.E. 301a-d AQUA CALISTHENICS **1 UNIT** This course covers the broad spectrum of drug use in our Hours: .5 Lecture/Discussion society. The material is constantly updated to reflect the 1.5 Activity current Interests of students and new information made Aqua Calisthenics is a P.E. activity course designed for students available by the scientific community. This course meets the who wish to develop, maintain or improve their cardiovascular Hygiene regulrement. Formerly HYGIENE 4. fitness level in an aquatic environment. No swimming skills are necessary.

PHYSICAL EDUCATION

PHYSICAL EDUCATION

DUIVEL	DUCA	TION
PHYSIC		
111101		

Intercollegiate Athletics	Intercollegiate Athletics
IA 1a-dINTERCOLLEGIATE ATHLETICS-BASEBALL - MEN'S2 UNITSHours:2 Lecture/Discussion 8 Activity2 Lecture/Discussion s activityIntercollegiate Varsity Baseball is designed for the student who excels in athletic ability and wishes to compete at a high level of baseball against other California community colleges. Formerly PE 52a-d.Recommended Prerequisites: P.E. 12a-d.	IA 5a-d INTERCOLLEGIATE 2 UNITS ATHLETICS - WOMEN'S CROSS COUNTRY Hours: 2 Lecture/Discussion 8 Activity This class is designed for the student/athlete who is interested in competing in intercollegiate Cross Country. The course involves daily practices as well as participation in cross country meets. Each meet for women consists of a 3-mile run, therefore all workouts are geared towards running this distance. Intercollegiate Cross Country not only allows the student/athlete to better herself as an individual athlete, but contributes to a team effort, as well. Formerly PE 58a-d.
IA 2a-d INTERCOLLEGIATE I UNITS	
BASKETBALL - MEN Hours: 1 Lecture/Discussion 4 Lab An advanced skill course for male students who want to participate in an intercollegiate basketball program. Course Includes advanced techniques of offence, defense, rebounding, transition and related philosophies will be taught and used in intercollegiate competition. Off court time will be required for travel and overnight trips. Formerly PE 51a-d. Recommended Prerequisite: Permission of department.	IA 6a-dINTERCOLLEGIATE ATHLETICS - FOOTBALL2 UNITSHours:2 Lecture/Discussion 8 Activity2 Lecture/Discussion 8 ActivityThis course is designed for the student/athlete to compete in intercollegiate varsity football at the community college level. The student/athlete should not schedule any other classes from 2 p.m. through 6:30 p.m. Monday-Friday. Formerly PE 50a-d.
IA 3a-d INTERCOLLEGIATE 1 UNITS BASKETBALL - WOMEN 1 Lecture/Discussion 4 Lab Hours: 1 Lecture/Discussion 4 Lab An advanced skill course for female students who want to participate in an intercollegiate basketball program. Advanced techniques of offense, defense, rebounding, transition and related philosophies will be taught and used in intercollegiate competition. Formerly PE 51a-d.	IA 7a-d INTERCOLLEGIATE 2 UNITS ATHLETICS - GOLF Hours: 2 Lecture/Discussion B Activity Designed for the student/athlete who wishes to play competitive golf on an intercollegiate golf team competing against teammates and other community colleges. Formerly PE 57a-d. Prerequisites: By permission of department.
Off court time will be required for travel and overnight trips. Prerequisites: Permission of the department. IA 4a-d INTERCOLLEGIATE 2 UNITS ATHLETICS - MEN'S CROSS COUNTRY Hours: 2 Lecture/Discussion 8 Activity This class is designed for the student/athlete who is interested in competing in intercollegiate Cross Country. The course involves daily practices as well as participation in cross country meets. Each meet consists of a 4-mile run, therefore, all workouts are geared toward running this distance. Intercollegiate Cross Country not only allows the student athlete to better himself as an individual athlete, but contributes to a team effort, as well. Formerly PE 58a-d Recommended Prerequisite: Permission of department.	IA 8a-d INTERCOLLEGIATE 2 UNITS ATHLETICS - WOMEN'S SOFTBALL Hours: 2 Lecture/Discussion 8 Activity This course is designed for the female student interested in competing in intercollegiate softball. The course involves daily practices as well as competition at the collegiate level at league games and various tournament play. Intercollegiate softball not only allows the student/athlete to better herself as an individual athlete, but contributes to team effort as well. Formerly PE 61a-d. Prerequisite: Permission from the department.
PHYSICAL EDUCATION PHYSICAL EDUCATION Intercollegiate Athletics Intercollegiate Athletics iA 9a-d* 2 UNITS INTERCOLLEGIATE 2 UNITS INTERCOLLEGIATE IA 13a-d **ATHLETICS - SWIMMING - MEN'S ATHLETICS - TRACK AND FIELD - MEN'S** 2 Lecture/Discussion 2 Lecture/Discussion Hours: Hours: **8 Activity** 8 Activity This class is designed for the student/athlete who is interested in This class is designed for the athlete who is interested in competing in intercollegiate swimming. The course consists of competing in intercollegiate track and field. The course involves dally practices and competition in scheduled meets. The goal daily practices as well as participation in track and field meets. of the program is to prepare participants to compete Each meet for the men consists of 12 running events and 8 field successfully at the Junior college level. Formerly PE 55a-d. events; therefore all work-outs are geared towards these individual events as well as general physical fitness. Intercollegiate track and field not only allows the student to better himself as an individual athlete, but contributes to a IA 10a-d* INTERCOLLEGIATE 2 UNITS team effort as well. Formerly PE 53a-d. ATHLETICS - SWIMMING - WOMEN'S 2 Lecture/Discussion Hours: 8 Activity This class is designed for the student/athlete who is interested in **INTERCOLLEGIATE ATHLETICS -**2 UNITS IA 14a-d TRACK AND FIELD - WOMEN'S competing in intercollegiate swimming. The course consists of dally practices and competition in scheduled meets. The goal 2 Lecture/Discussion Hours: of the program is to prepare participants to compete **8** Activity successfully at the junior college level. Formerly PE 55a-d This class is designed for the athlete who is interested in competing in Intercollegiate track and field. The course involves daily practices as well as participation in track and field meets. Each meet for the women consists of 11 running events and six field events; therefore all work-outs are geared towards these IA 11a-d INTERCOLLEGIATE 2 UNITS **ATHLETICS - TENNIS - MEN'S** individual events as well as general physical fitness. Intercollegiate track and field not only allows the student to 2 Lecture/Discussion Hours: **8** Activity better herself as an individual athlete, but contribute to a team effort as well. Formerly PE 53a-d. Designed for the student who wishes to play competitive tennis on an intercollegiate tennis team competing against teammates and other community colleges. Formerly PE 54a-d. IA 15a-d INTERCOLLEGIATE 2 UNITS Recommended Prerequisite: P.E. 15a-d and permission of the WATER POLO department. 2 Lecture/Discussion Hours: 8 Activity This class is designed for the student/athlete who is interested in competing in intercollegiate Water Polo. The course consists of INTERCOLLEGIATE 2 UNITS daily practices and competition in scheduled games. The goal IA 12a-d ATHLETICS - TENNIS - WOMEN'S of the program is to prepare interested student/athletes to Hours: 2 Lecture/Discussion successfully compete at the junior college level. Formerly PE 8 Activity 60a-d. This course is designed for the female student who wishes to play competitive tennis on an intercollegiate tennis team INTERCOLLEGIATE ATHLETICS competing against teammates and other community college 2 UNITS IA 16a-d students. Formerly PE 54a-d, **VOLLEYBALL - WOMEN'S** Recommended Prerequisites: P.E. 32a-d and by permission of 2 Lecture/Discussion Hours: the department. 8 Activity Designed for the female student who wants to continued her volleyball competition at an intercollegiate level. The course involves daily practice as well as participation in intercollegiate volleyball matches and tournaments. Formerly PE 56a-d.

PHYSICAL EDUCATION

Recreation

REC 101 INTRODUCTION 3 UNITS TO COMMUNITY RECREATION Hours: 3 Lecture/Discussion

Philosophical, theoretical and historical approach to recreation and leisure services in contemporary American society. For the student who want to develop a personal philosophy of leisure through education, information and simulation. **Prerequisite:** English 251.

Sports Medicine

SPORTS	THE CARE AND	3 UNITS
MED 40	PREVENTION OF ATHLETIC INJURIES	1
Hours:	3 Lecture/Discussion	
	1 lab	

This course partially fulfills the regulations and requirements of the National Athletic Trainers Association Certificate. The course is open and recommended for all students who have an interest in learning about sport(s) injuries and their prevention and management.

SPORTS CONCEPTS IN MED 60 HEALTH AND FITNESS

3 UNITS

Hours: 3 Lecture/Discussion

An examination of recommended health practices and concerns. Emphasis is on basic understanding of critical health and fitness issues and applying these to everyday living.

 SPORTS
 SPORTS MEDICINE,
 2 UNITS

 MED 70
 FALL SPORTS

 Hours:
 1 Lecture/Discussion

4 Lab Exposure to immediate recognition and treatment of sports injuries unique to fall sports. Emphasis on rehabilitation and taping techniques to enable athletes to return to competition. Recommended Prerequisites: Sports Medicine 40, Hygiene 3

SPORTS	SPORTS MEDICINE,	· .	2 UNITS
MED 71	SPRING SPORTS		
Hours:	1 Lecture/Discussion		
	4 Lab		

The study and exposure to immediate recognition and treatment of sports injuries unique to spring sports. Emphasis will be placed on rehabilitation and taping techniques to aid in healing of the body and returning the athlete to competition. **Recommended Prerequisite:** Sports Medicine 40, Hyglene 3

PHYSICAL EDUCATION

2 UNITS

2 UNITS

Sports Medicine

SPORTS	SPORTS MEDICINE
MED 72	ADVANCED, FALL SPORTS
Hours:	1 Lecture/Discussion
	3 lab

This course will give students additional exposure to the immediate recognition and treatment of sports injuries unique to Fall sports. Students will have hand-on experience and will be able to apply different techniques in the treatment of injuries.

Recommended Prerequisites: Sports Medicine 40, Hygiene 3, Sports Medicine 70.

 SPORTS
 ADVANCED SPORTS

 MED 73
 MEDICINE, SPRING SPORTS

 Hours:
 1 Lecture/Discussion

 3 Lab

This course will give students additional exposure to immediate recognition and treatment of sports injuries unique to spring sports. Students will have hands-on experience and will be able to apply different techniques in the treatment of injuries. **Recommended Prerequisites:** Sports Medicine 40 and 70, Hygiene 3.

PHYSICAL SCIENCE

PHYS SCI 12 INTRODUCTION TO PHYSICAL 3 UNITS SCIENCE

Hours: 3 Lecture/Discussion 2 Lab

A laboratory based course in physical science designed to meet the laboratory science requirement for transfer students who are not science majors. This course emphasizes the methods and reasoning used in the physical sciences. Topics include observation and interpretation, measurement, laws of nature, characteristic properties, uncertainty, solubility, compounds and separation of substances.

Recommended Prerequisites: Eligible for Math 230 and English 251. Not open to students with credit in Physical Science 350.

PHYS SCI	INTRODUCTION TO	
12H	PHYSICAL SCIENCE	1.1.1
Hours:	3 Lecture/Discussion	
	2 Lab	

A laboratory based course in physical science designed to meet the laboratory science requirement for transfer students who are not science majors. This course emphasizes the methods and reasoning used in the physical sciences. Topics include observation and interpretation, measurement, laws of nature, characteristic properties, uncertainty, solubility, compounds and separation of substances.

Prerequisites: Acceptance into the C.O.S. Honors Program. Eligible for Math 230 and completion of English 1. Not open to students with credit in Physical Science 350 or Physical Science 12.

185

3 UNITS

Course descriptions

PHYSICAL SCIENCE

3 UNITS

PHYS SCI FUNDAMENTALS OF PHYSICAL SCIENCE 350 Hours: 3 Lecture/Discussion 2 Lab

This class will introduce the student to the fundamental reasoning and methods used in the physical sciences. It is designed to help students develop the competence and confidence necessary for successful college study in both academic and vocational courses. Formerly PHYS SCI 50.

Prerequisite: Must be enrolled in SUCCESS Program.

PHYSICS

PHYSICS 5 PHYSICS FOR **4 UNITS** SCIENTISTS AND ENGINEERS Hours: 4 Lecture/Discussion 2 Lab

This is the first semester of a three semester introductory calculusbased physics course. It is a fundamental treatment of the general principles of physics for engineering and physical science majors. Topics included are statics, kinematics, dynamics of particles and rigid bodies, simple harmonic motion and mechanical properties of solids. Formerly Physics 5A. (CAN-PHYS 8)

Recommended Prerequisites: Completion of Math 75 with a grade of "C" or better.

PHYSICS 6 PHYSICS FOR **4 UNITS** SCIENTISTS AND ENGINEERS 4 Lecture/Discussion Hours: 2 Lab

This is the second semester of a three semester introductory calculus-based physics course. It is a fundamental treatment of the general principles of physics for the engineering and physics major. Topics included are mechanical properties of matter, fluid mechanics, wave motion, thermodynamics, and electrostatics, Formerly PHYSICS 5B, (CAN-PHYS 10) Prereguisites: Completion of Physics 5 with a grade of "C" or better.

PHYSICS 7	PHYSICS FOR	4 UNITS
	SCIENTISTS AND ENGINEERS	
Hours:	4 Lecture/Discussion	
	2 lab	

This is the third semester of a three semester introductory calculus-based physic course. It is a fundamental treatment of the general principles of physics for the engineering and physics major. Topics included are electricity, magnetism, and optics. Formerly PHYSICS 5C. (CAN-PHYS 12)

Prerequisites: Completion of Physics 6 with a grade of "C" or better.

PHYSICS

PHYSICS 20 GENERAL PHYSICS 4 Lecture/Discussion Hours: 2 Lab

This is the first semester of a two-semester introductory noncalculus based physics course. This course includes laboratory experiments in addition to lectures. It is required for premedical, predental, prepharmacy, and occasionally science and math students. Topics included are statics; kinematics, dynamics of particles and rigid bodies, simple harmonic motion, and thermal physics, Formerly PHYSICS 2A. (CAN-PHYS 2)

Prereguisites: Completion of Trigonometry (Math 154 or equivalent) with a grade of "C" or better. Co-requisite of Math 61 or equivalent.

PHYSICS 21 GENERAL PHYSICS 4 Lecture/Discussion Hours: 2 Lab

4 UNITS

4 UNITS

This is the second semester of a two-semester introductory noncalculus based physics course. This course includes laboratory experiments in addition to lectures. It is required for premedical, predental, prepharmacy, and occasionally science and math students. Topics included are: electricity and magnetism, optics, modern and nuclear physics. Formerly PHYSICS 2B. (CAN-PHYS 4)

Prerequisite: Physics 20 with a grade of "C" or better. Coregulate of Math 62 or equivalent.

PLANT SCIENCE

PLNT SCI INTRODUCTION TO **CROP SCIENCE** 3 Lecture/Discussion Hours:

1 Lab

A general survey of crop production in California. This course includes an overview of crop area and uses, current economic and market conditions, plant taxonomy and classification, and basic botany.

FRUIT AND NUT PLNT SCI **TREE PRODUCTION** 12 3 Lecture/Discussion Hours: 1 Lab

3 UNITS

3 UNITS

An introductory course in California fruit and nut tree production. Basic cultural and management practice in nut, stone, and pome fruits are included in this course.

Prerequisites; Plant Science 1 recommended.

COURSE DESCRIPTIONS PLANT SCIENCE PLANT SCIENCE PLNT SCI GRAPE AND **3 UNITS 3 UNITS** PLNT SCI **ROW CROPS** 113 **VINE PRODUCTION** 102 3 Lecture/Discussion Hours: **3 Lecture/Discussion** Hours: This course is a survey of the grape industry, grape varieties, and 1 Lab economics with a study of the cultural practices of table and The production principles and management practices for row wine grape production in California. Formerly PLNT SCI 15. crops including cotton, corn, and sugar beets in the San Joaquin Valley. Formerly PLNT SCI 2. Prerequisite: Plant Science 1 is recommended. Prerequisites: Plant Science 1 recommended. PLNT SCI **CEREAL AND OIL CROPS 3 UNITS** POLITICAL SCIENCE 103 **3 Lecture/Discussion** Hours: 1 Lab POLI SCI 5 FEDERAL, STATE, **3 UNITS** This course covers the production principles for small grains AND LOCAL GOVERMENT Including sorghums and oil crops in the San Joaquin Valley. Hours: 3 Lecture/Discussion Topics include fundamental taxonomy, botany and cultural An introduction to the principles and problems of national, practices including tillage, planting, Irrigation, pest control, state and local advernment, with particular emphasis on the and harvesting. Formerly PLNT SCI 5. Constitution of the United States and the state and local Prerequisites: Plant Science 1 recommended. governments of California. (CAN-GOVT 2) Recommended Prerequisite: Eligible for English 1. PLNT SCI FORAGE CROPS **3 UNITS** 104 POLI SCI 5H FEDERAL, STATE **4 UNITS** Hours: **3 Lecture/Discussion** AND LOCAL GOVERNMENT 1 Lab 3 Lecture/Discussion Hours: A study of the common forage crops: alfalfa, sllages, permanent 1 Honors Colloquium pastures, and natural ranges. Cultural practices to be studled An introduction to the principles and problems of national, will include: land preparation, irrigation needs, fertilization, state and local government, with particular emphasis on the seeding rates, methods of utilization, grazing sliage or dry hay, Constitution of the United States and the state and local and harvesting. Formerly PLNT SCI 3. governments of California. In additional this course will explore and analyze conflicting problems affecting government on the national, state, and local levels. A one hour colloquium is also required for the fourth unit of credit. (CAN-GOVT 2). **3 UNITS** PLNT SCI WEEDS AND WEED Prerequisite: Completion of English 1-H. 105 CONTROL 2 Lecture/Discussion Hours: 2 Lab This course covers identification, cultural, chemical, and POLI SCI 7 INTRO TO MASS **3 UNITS** biological control or prevention of the major weeds affecting COMMUNICATIONS crops and livestock in the Tulare-Kings counties area. Formerly 3 Lecture/Discussion Hours: PLNT SCI 4. **CROSS REF: Journalism 7** A survey course covering all media of mass communications, newspapers, radio, television, magazines, book publishing, films, and the recording Industry. Students will study strengths PLNT SCI **CITRUS PRODUCTION 3 UNITS** and weaknesses of each medium, as well as the major 111 challenges to a democratic society including censorship, Hours: 2 Lecture/Discussion sensationalism, pornography, propaganda; and monopology. 2 Lab The course focuses on the interrelationship of mass media and Economic importance of the citrus industry. Topics include: society. (CAN-JOURN 4) historical development, areas of production, environmental requirements and citrus climatology, citrus botany, commercial varieties and rootstocks. Critical evaluation and comparison of citrus regions around the world. Orchard planning and development, nursery practices, tree management, pest and disease control, irrigation and fertilization, pruning, harvesting, and marketing. Formerly PLNT SCI 14.

PSYCHOLOGY

PSYCH 1GENERAL PSYCHOLOGY3 UNITSHours:3 Lecture/DiscussionThis course involves an introduction to the field of psychology
through a study of the facts and principles involved in learning,
development, motivation, personality, adjustment, and the
physiological bases of behavior. The basic concepts and
scientific method as employed in psychology are presented.
Particular emphasis is placed on those concepts which relate
to an understanding of human behavior. (CAN-PSY 2)Recommended Prerequisite: Eligibility for English 1.

PSYCH 5 SOCIAL PSYCHOLOGY 3 UNITS Hours: 3 Lecture/Discussion

A scientific exploration and application of the psychological basis of people's interactions with one another and the way thoughts, feelings and action are influenced by others. Topics include: perception, roles, conformity, prejudice, aggression, altruism and groups dynamics. Social psychology is interdisciplinary—drawing on the fields of Anthropology, Psychology and Sociology.

Prerequisites: Psychology 1 and eligibility for English 1.

PSYCH 10 HUMAN SEXUALITY Hours: 3 Lecture/Discussion

3 UNITS

A comprehensive introduction to the biological, psychological and sociocultural aspects of human sexual behavior. **Prereaulsites:** Eligibility for English one and Psychology 1.

PSYCH 34 ABNORMAL PSYCHOLOGY Hours: 3 Lecture/Discussion

3 UNITS

3 UNITS

This course is designed to present a broad general survey of the field of abnormal psychology. It utilizes the many theoretical views of psychopathology in human behavior in order to explore the nature and development of these deviations.

PSYCH 39 CHILD DEVELOPMENT Hours: 3 Lecture/Discussion CROSS REF: Child Dev 39

This course traces child development utilizing basic theories such as Piaget, Erikson, and Kolberg. Current research is reviewed and discussed. Study concentrates on normal development from prenatal through adolescence. Students will be required to do observation of children and to write child studies, media critiques and essay exams. (CAN-HEC 14)

PSYCH 130 INTRODUCTION 3 UNITS TO BEHAVIOR MODIFICATION Hours: 3 Lecture/Discussion

Thissemester course is designed for teachers, paraprofessionals, and those pursuing a career in psychology. Student will develop skills in assessing behavior change program. This course will combine both the theoretical and practical models for understanding human behavior. Formerly PSYCH 30. **Recommended Prerequisites:** Eligible for English 1 and completion of Psychology 1.

PSYCHOLOGY

PSYCH 133 PERSONAL AND SOCIAL GROWTH

Hours: 3 Lecture/Lab

A practical survey of psychological principles which contribute to the Individual's well being and his/her relationship with others. The main focus is on understanding the behavior and personality traits which most improve or interfere with realizing one's potential. Specific topics may include love, sex, emotions, shyness, values, and effective communication. Formerly PSYCH 33.

PSYCH 250 INTRODUCTION TO BASIC 3 UNITS PSYCHOLOGY

Hours: 3 Lecture/Discussion

This course presents the principles and findings of psychology in a manner most relevant to application by the individual in daily life. Learning, motivation, emotions, and interpersonal relations are among the many topics examined. It is not intended for transfer to a university. Formerly PSYCH 50.

PUBLIC ADMINISTRATION

PUB ADMIN* MANAGING 211 ORGANIZATIONS Hours: 8 Lecture/Discussion

1 UNIT

3 UNITS

A general course in the managing of the public sector organizations in the 1990's. Specific content to include: conflict resolution, management styles, organizational stress and organizational behavior as it relates to the everyday management of organizations. This would be an excellent course for managers to gain insight to their strengths and weaknesses and how they manage organizations as a practical matter. Formerly PUB ADMIN 6A,

Recommended Prerequisites: Either previous college classes, business/work experience, consent of the instructor.

R



REAL ES REAL ESTATE PRINCIPLES

3 UNITS

140 Hours:

3 Lecture/Discussion

A general survey of the Real Estate Industry in California emphasizing basic real estate principles. Tracing of a typical real property transaction from beginning to completion. Real property ownership and investments explored. This course will be an aid to those planning to take the California State Real Estate Brokers or Salesman Examination but should not be contrived as a prep course in itself. The pros and cons of real estate as a career are discussed and should be a help to someone who is exploring real estate as a vocation. Formerly BUS 40A.

REAL ESTATE

REAL ES REAL ESTATE FINANCE 141

3 UNITS

3 UNITS

Hours: **3 Lecture/Discussion**

This course covers the ways to finance real estate, provisions regarding real estate financing, and the various taxation aspects of real estate finance. Formerly BUS 41.

Recommended Prerequisites: Real Es 140

REAL ES LEGAL ASPECTS 3 UNITS 142 **OF REAL ESTATE** Hours: 3 Lecture/Discussion

This course covers the practical applications of real estate law, utilizing illustrative cases and examples designed to help avoid legal difficulties arising from real estate transactions, instruments, zoning, and planning. This course is almed at career minded people, both already in the real estate business and those planning to enter it. This course is required for the California Real Estate Brokers examination. Formerly BUS 42A. Recommended Prerequisite: Real Estate 140

3 UNITS REAL ES **REAL ESTATE ECONOMICS** 143

Hours: **3 Lecture/Discussion**

Real Estate 143, Real Estate Economics, is a field of study that uses economic principles to help solve Real Estate problems. The student will be exposed to techniques in analyzing national, regional, city and neighborhood trends in an effort to interpret what affect these trends will have on the Real Estate market. This course qualifies towards the AA/AS degree, Real Estate Career Certificate Program, and the California Real Estate Brokers License, Formerly BUS 43.

REAL ES REAL ESTATE APPRAISAL 145

Hours: **3 Lecture/Discussion**

This course is an introductory course in basic residential appraisal techniques emphasizing the cost, market and income approach. The student develops skills in residential appraising. This course is part of the course work necessary for the California Real Estate Broker's Examination. Formerly BUS 45. Recommended Prereguisite: Real Es 140.

S SIGN LANGUAGE STUDIES

SIGN **BEGINNING AMERICAN** LANG 101 SIGN LANGUAGE 1 Hours:

3 UNITS

3 Lecture/Discussion

prior Students with knowledge no of American Sign Language will be able to function comfortably In a variety of situations with deaf people. They will learn of the cultural differences between deaf and hearing people and appropriate behaviors for social interaction. This course cover the first half of level one of the Sianina Naturally curriculum which emphasizes the functions of everyday communication and uses only the target language in class.

Prerequisite: Recommend at least English 251 level eligibility.

SIGN BEGINNING LANG 102 AMERICAN SIGN LANGUAGE II Hours: 3 Lecture/Discussion

A continuation of SLS 101: The skills introduced in SLS 101 will be expanded. Students will be able to express considerably more complicated needs and will become more adept at functioning In the Deaf community. Formerly SIGN LANG 2. Prereguisite: SLS 101

SIGN **INTERMEDIATE**

3 UNITS

3 UNITS

LANG 103 **AMERICAN SIGN LANGUAGE** Hours: 3 Lecture/Discussion

1 Activity

A continuation of SLS 102: The skills introduced in SLS 101 and 102 will be expanded to the point where students can function comfortably in a wide variety of situation in the Deaf community. Students will be able to express more complicated needs and be more aware of the Deaf culture. Formerly SIGN LANG 3. Prerequisites: Completion Sign Lang 101 and 102.



INTRODUCTION SOC 1 **TO SOCIOLOGY** **3 UNITS**

3 Lecture/Discussion Hours:

Sociology 1 is an introductory course covering basic principles and concepts, including culture, personality, social inequality, institutions, population and ecology, and social change. Formerly SOC 1A. (CAN-SOC 2). Prerequisite: English 1 eligibility.

SOCIOLOGY

SOC 2 THE SOCIOLOGY OF SOCIAL PROBLEMS Hours: 3 Lecture/Discussion 3 UNITS

3 UNITS

3 UNITS

This course covers a broad array of topics that analyze and explain the dynamics of many different social problems. The student will examine the American system of government, the

quality of education, the modern family, the rich and the poor, patterns of ethnic relations, health and illness, gender inequality, sexual behavior, drugs and drug addiction, causes and distribution of crime, personal violence, urbanization, population dynamics, the environmental crisis, and the causes and consequences of warfare. Formerly SOC 1B. (CAN-SOC 4) **Recommended Prerequisite:** English 1

SOC 126 MARRIAGE AND FAMILY LIFE Hours: 3 Lecture/Discussion

CROSS REF: CFS 126

An introductory course to marriage and family life. This course will emphasize the following topics: dating, marriage, changing roles, communication skills, family planning, human sexuality, parenting, divorce and remarriage. Formerly SOC 26. (CAN-HEC 12)

SOCIAL SCIENCE

SOC SCI AMERICA 276

Hours: 3 Lecture/Discussion

A course in which films and discussions emphasize the interrelationship in the students' life of social, cultural, political, and economic forces in an evolutionary setting. Designed to fulfill the Social Science AA/AS degree requirement for students in the two year program. This course covers the time period from 1000 A.D. until the present. Formerly SOC SCI 76.

SPANISH

SPANISH 1ELEMENTARY SPANISH 1Hours:4 Lecture/Discussion

4 UNITS

Spanish 1 is an introductory course in understanding, speaking, reading and writing Spanish. This course is designed for students who are transferring to four-year universities with foreign language requirements. It is also useful for students interested in bilingual education or any field which involves Spanish.

SPANISH 2 ELEMENTARY SPANISH 2 Hours: 4 Lecture/Discussion 4 UNITS

Spanish 2 is the second course in a four-course series. It teaches students to communicate at a basic level in Spanish. Students build on the skills they have learned in Spanish 1 while continuing to study the culture and language of the Hispanic world. **Prerequisites:** A grade of C or better in Spanish 1 or successful completion of the first year of high school Spanish. SPANISH

SPANISH 3 INTERMEDIATE SPANISH 3 Hours: 4 Lecture/Discussion

4 UNITS

Spanish 3 is an intermediate course in a four-course series. It teaches students to communicate at a sophisticated level, both orally and in writing. It builds on concepts learned in Spanish 1 and 2. It also improves student's reading ability and provides dialogue on cultural topics.

Recommended Prerequisites: A grade of "C" or better in Spanish 2 or successful completion of two years of high school Spanish.

SPANISH 4 INTERMEDIATE SPANISH 4 4 UNITS Hours: 4 Lecture/Discussion

Spanish 4 is the most advanced course in this four-course series. It teachesstudents to communicate fluently in Spanish. Fluency is achieved through review of Spanish 1, 2 and 3 and the added study of advanced grammar (including accents and punctuation). Conversation is an important component of this class and centers around current events in Hispanic countries. **Prerequisite:** A grade of C or better in Spanish 3 or successful completion of three years of high school Spanish.

SPANISH HISPANIC LITERATURE 3 UNITS

Hours: 3 Lecture/Discussion

An interpretive analysis of Hispanic literature since the turn of the 20th Century. Through directed readings, discussions and writing, the students critique and analyze so as to interpret the prominent themes among Hispanic writers. This course analyzes the relationships between the genres which reflect the expression of Hispanic culture.

Recommended Prerequisites: A grade of "C" or better in Spanish 4, or permission from the department.

SPANISH SPANISH 2 FOR 4 UNITS 22 BILINGUAL STUDENTS Hours: 4 Lecture/Discussion

This course is designed to improve the written and oral communication skills of Spanish-speaking students. It is equivalent to Spanish 2, although more emphasis is placed on reading and writing for the native speaker.

Prerequisite: Student would have a bilingual background as well as meet the prerequisites for Spanish 2.

SPANISH SPANISH 3 FOR 23 BILINGUAL STUDENTS 4 UNITS

Hours: 4 Lecture/Discussion

A continuation of Spanish 22. This course is for native speakers who wish to improve their written and oral communication skills. It is equivalent to Spanish 3.

Prerequisite: Completion of Spanish 22 with a grade of "C" or better or permission of the Spanish Department.

190

SPANISH

3 UNITS

SPANISH CONVERSATIONAL SPANISH I 350 Hours: 3 Lecture/Discussion

This is the first conversation Spanish course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Very basic grammar points will be touched upon. Formerly SPANISH 50.

SPANISH CONVERSATIONAL SPANISH II 3 UNITS 351

Hours: 3 Lecture/Discussion

This is the second conversational Spanish course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Very basic grammar points will be touched upon. Formerly SPANISH 51.

SPANISH CONVERSATIONAL SPANISH III 3 UNITS 352 Hours: 3 Lecture/Discussion

This is the third conversational Spanish course in a series of three for the student interested in speaking the language at a rudimentary level with an emphasis on survival and consumer skills. Very basic grammar points will be touched upon. Formerly

skills, very basic grammar points will be fouched upon, Formerly SPANISH 52. Prerequisites: Conversational Level II recommended, or

permission of department.

SPANISH CONVERSATIONAL SPANISH IV 3 UNITS 353

Hours: 3 Lecture/Discussion

This is the fourth conversational Spanish course in a series of four for the student interested in speaking the language at a fluent level with an emphasis on survival and consumer skills. Basic grammar points will be introduced as necessary for clear communication. Formerly SPANISH 53.

Prerequisites: Conversational Level III or permission of department recommended.

SPANISH 360a-b	COURT INTERPRETING	3 UNITS	3.
Hours:	3 Lecture/Discussion	1 A	
	1 Activity		

Spanish language equivalents to American legal terminology is presented in an overview of procedures, common misdemeanors and common felonies. Familiarization with the Rules of Court and the role of the interpreter is covered as well as the implementation of the various techniques of interpreting within role playing. Formerly SPANISH 61a-b.

SPECIAL TOPICS

SPEC SPECIAL TOPICS TOPICS 199 Hours: Variable

Special topics are specialized studies or projects that are especially designed by instructors and students to enrich the learning experience in a discipline. Credits may be earned in 199 transfer level.

SPEC SPECIAL TOPICS

1-4 UNITS

1-4 UNITS

Hours: Variable

Hours:

Special topics are specialized studies or projects that are especially designed by instructors and students to enrich the learning experience in a discipline. Credit in Special Topics 299 is non-transferable.



SPEECH 1 FUNDAMENTALS OF PUBLIC SPEAKING

OF PUBLIC SPEAKING 3 Lecture/Discussion

Speech 1 is an introductory course in Public Speaking. This course covers a variety of formal Public Address styles and formats. This course offers students an opportunity to learn and practice specific skills needed for effective public speaking. (CAN-SPCH 4)

Recommended Prerequisite: Eligibility for English 1.

SPEECH 3ORAL INTERPRETATIONHours:3 Lecture/Discussion

3 UNITS

3 UNITS

Speech 3 is designed to introduce students to the techniques of understanding and interpreting prose, poetry and dramatic selections, as well as criticism and appreciation of oral literature. **Recommended Prerequisite:** Eligibility for English 1.

SPEECH 4 INTERPERSONAL COMMUNICATIONS Hours: 3 Lecture/Discussion

3 UNITS

introduction to the basic concepts of Interpersonal Communication by providing students with insights into their own effectiveness as a communicator and deal with the application of effective interpersonal communication behavior in personal and professional life. Specific skills in active listening. Conflict resolution perceptions, non-verbal communication and self concept will be addressed.

Recommended Prerequisite: Eligibility for English 1.

SPEECH

This is one of a series of courses designed to help students develop competence and confidence necessary for successful college study in both academic and vocational courses. This course involves the study and practice of everyday life. It provides communication skills in the specific areas of public speaking, group discussion, oral interpretation, and interpresonal relationships. This course will help students prepare for all collegiate disciplines. This course is an elective course in the SUCCESS program. Formerly SPEECH 50.

Prerequisite: Must be enrolled in SUCCESS program.

SUPERVISED PRACTICE

190a-d SUPERVISED PRACTICE Hours: 3-9 Lab 1-3 UNITS

Under the supervision of an instructor, selected students assist and direct students in less advanced classes. This course provides experience for students interested in teaching, counseling and other employment or volunteer situations where the student is expected to take a leadership role. **Prerequisite:** Permission of the department.



THEATER ARTS

 THTR
 INTRODUCTION
 3 UNITS

 ART 1
 TO THE THEATRE
 1

 Hours:
 3 Lecture/Discussion
 1

This course is intended as a critical analysis of theatre from an audience perspective. Elements of play production from the dramatic structure, style and historical perspective of the script to the final presentation before an audience will be explored. Attendance at College Theatre Arts productions is required. Scheduled field trips to other Theatre productions. Formerly THTR ART 35.

THTR	FUNDAMENTALS 3 UNITS	
ART 2	OF ACTING I	
Hours:	2 Lecture/Discussion	
	2 Lab	

Intensive application of acting techniques through study and performance and the learning of basic exercises for the actor; study and development of characters in performance from the contemporary theatre and recent internationally representative plays and musicals. Formerly THTR ART 10A.

THEATER ARTS

THTR FUNDAMENTALS ART 3 OF ACTING II Hours: 2 Lecture/Discussion 2 tab 2

This course is designed to exercise the separate parts of the composite art of acting which includes thought, emotion, and specific movement and vocal techniques. Emphasis is placed on the appraisal and analysis of stage techniques, acting theories, and practices in performance from experimental dramas and the theater of the absurd. The ultimate goal is to develop a firm foundation in basic acting techniques. Formerly THTR ART 10B.

THIR INTERMEDIATE ART 4 ACTING I

3 UNITS

3 UNITS

3 UNITS

Hours: 4 Lecture/Discussion

This course is designed as an advanced level of study of acting proficiency and technique begun in Theater Arts 2 and 3. Class lecture, discussion, and scene work focus on text and character analysis, clarity of characterization, vocal and physical expressiveness and emotional release. Acting scene material is taken from the plays of the classical Greek Theater, William Shakespeare and the Restoration comedies of the 18th Century. Formerly THTR ART 10C.

Recommended Prerequisites: Theater Arts 2 and 3 or permission of department.

THTR INTERMEDIATE ACTING I 3 UNITS

Hours: 4 Lecture/Discussion

Continuation of Theatre Arts 4 in which play texts are studied and presented with concentration on in-depth analysis of subject material, intensity of action, freedom of emotional release, and clarity of expression. Acting scenes are chosen from European and American play of the late nineteenth century through the social dramas of the 1930's. Formerly THTR ART 10D.

Recommended Prerequisites: Theatre Arts 2 and 3 or permission of department.

THTR ART 11a-d	REHEARSAL AND PERFORMANCE
Hours:	15 Activity
	(6 week course)
Rehearsald	and performance in COSSumm

Rehearsal and performance in COS Summer Repertory Theater. This course provides study and exploration in all aspects of play production involving the actor and technician in order to develop acting capabilities and technical skills and disciplines. Productions will be presented for public performance. Enrollment is for the duration of the audition, preparation, and presentation phases of production.

THEATER ARTS

THEATER ARTS

THTR BEGINNING ART 13a-b STAGECRAFT Hours: 2 Lecture/Discussion 2 Lab

Materials Fee: \$5.00

A survey is made through lecture, demonstration and laboratory experience of all technical phases of scene production including construction, painting, rigging, placement, and manipulation of stage scenery and properties. Additional hours required for crew work on college production. Formerly THTR ART 14a-b.

INTERMEDIATE THTR ART 14a-b STAGECRAFT Hours:

3 UNITS

3 UNITS

3 UNITS

2 Lecture/Discussion 2 lah

Materials Fee: \$5.00

Course is designed as an intermediate class for the student who has completed Theatre Arts 13a-b. The student will continue the study of Stagecraft by being assigned the added responsibilities of construction crew and production staff leadership individual design, construction, and organizational problems as well as scene shop and theatre maintenance techniques will be assigned. Additional hours required for crew work on college productions. Formerly THTR ART 14c-d.

THTR	BEGINNING		3 UNITS
ART 15a-b	STAGE LIGHTING		
Hours:	2 Lecture/Discussion		
	2 Lab		

This course introduces the student to the basic concepts of theatre lighting. Study includes the operation of stage lighting, the planning and rigging. Additional hours are required for crew work on college productions.

INTERMEDIATE THTR ART 16a-b STAGE LIGHTING 2 Lecture/Discussion Hours: 2 Lab

The student will continue the study of Stage Lighting by being assigned the added responsibilities of lighting crew and production staff leadership. Individual design rigging and organizational problems, as well as lighting instrument and control system maintenance and operation techniques, will be assigned. Additional hours required. Formerly THTR ART 15c-d. Preregulaites: Theatre Art 15a-b.

THTR ADVANCED 2 Lecture/Discussion

3 UNITS

ART 18a-b THEATRE CRAFTS Hours: 2 Lab

This course studies the function and application of design principles in the theatre crafts: Stagecraft, stage lighting, costuming and makeup. Additional lab hours are required: work in leadership roles as production crew leaders on college Theatre Arts and Dance productions. Formerly THTR ART 16ab.

Recommended Prereguisites: Theatre Art 13a-b, 15a-b, 112ab.and 117a-b.

THTR THEATRE ART 19a-d WORKSHOP Hours: 120 hour course

2 UNITS

3 UNITS

This course provides study and laboratory exploration in all aspects of play production involving the theatre technician in order to develop technical capabilities, skills and disciplines for the COS Summer Repertory Theatre. The audition, preparation and presentational phases of the process will be explored under the supervision and guidance of a faculty director. Productions will be presented for public performance. Enrollment is for the duration of the audition, preparation, and presentation phases of production. Formerly THTR ART 55a-d.

MUSICAL THEATRE THTR 2 UNITS ART 20a-d PERFORMANCE 120 hour course Hours: CROSS REF: Music 97a-d, Dance 41a-d Experience in drama and theatre through active participation.

in major musical and dramatic productions. Including training and experience in all facets of the theatre. Formerly THTR ART 41a-d.

COSTUMING THTR ART 112 a-b 2 Lecture/Discussion Hours:

4 Lab CROSS REF: Fashion 112a-b

Materials Fee: \$5.00

A study of the principles and practice of costume construction from pattern to completed garments. Construction techniques, fabrics, basic patterns, wardrobe plotting, and historical styles. Additional hours required to work on crews for college productions.

193

THEATER ARTS

	INEATER ARTS			WELDING	
THTR ART 117g-b	MAKEUP	3 UNITS	WELDING	ADVANCED WELDING	4 UNITS
Hours:	2 Lecture/Discussion		Hours:	3 Lecture/Discussion	
CROSS REF	4 Lab Fash 117a-b		Instruction	3 Lab in flame cutting (alternative	fuel aases) shielded
Materials Fe	ee: \$10.00		metal arc	welding (low hydrogen elec	strodes), gas tungsten
This course techniques	is designed to introduce the and materials of theatrical mo	student to the basic skeup: theatrical.TV.		ng, gas metal arc welding (s lasma cutting, destructive te	
photos, spe	clal occasions, business and ev	ening. Topicsinclude	ItIsrecomm	nended that you have prior co	ursework or knowledge
	be, hair arrangement, skin co es and skintypes. Additional h			operation of the oxy-fuel go . Formerly WELDING 7A.	is cutting and weiding
	or college Theatre Arts and ITR ART 17a-b.	Dance productions.	Prerequisit	es: Welding 161 and 162.	
ronneny m					
			WELDING	ADVANCED WELDING	4 UNITS
THTR	MODELING	3 UNITS	172		
ART 170 Hours:	3 Lecture/Discussion		Hours:	3 Lecture/Discussion 3 Lab	
	Fashion 170			In advanced gastungsten are	
	ction to the modeling indus d agencles. Instruction will in			as shielded and self-shielded w hology, non-ferrous filler ma	
basic fast	nion and photographic te n; stage and photographi	chniques; portfolio	welding, r	resistance spot welding, in r and destructive testing of w	troduction to ferrous
techniques	; posture, gesture and movem	ent and participation	recommer	nded that you have prior cou	rsework or knowledge
	production. Students will also c et, nutrition and exercise, skin			operation of the oxy-fuel go Formerly WELDING 7B.	is cutting and welding
			Prerequisit	es: Welding 171.	
				· .	
W	WELDING		WELDING	BLUEPRINT READING	3 UNITS
	WELDING		181	AND FERROUS METALLURGY	5 UNIS
WELDING	OXY-ACETYLENE WELDING	4 UNITS	Hours: The funda	3 Lecture/Discussion mentals of blueprint readin	a relating to welded
161	· · · · · · ·	4 014115	componer	nts and assemblies utilizing t	he American Welding
Hours:	3 Lecture/Discussion 3 Lab			eld symbol designations. Shi ches are interpreted. Ferri	
Introductio	n in oxy-acetylene welding, br	aze welding, brazing,	character	istics and Identification gro estructive and non-destruc	oups are determined
	amespraying, and flame cuttir errous sheet, plate, and pip			/ELDING 17.	invertesting methods.
apparatus	and personal safety in the we	olding environment is			
	operties of ferrous materials ar materials complete the program				
6A.			WELDING 364a-d	WELDING TOPICS	1-3 UNITS
		·	Hours:	8 Lecture/ Discussion 16 Lab	
WELDING	SHIELDED	4 UNITS		ind open entry and open ex	
162 Hours:	METAL ARC WELDING			d plastics Jolning process. With cesses will be demonstrated us	
nours:	3 Lecture/Discussion 3 Lab		to develop	o a proficient skill level.	· · · ·
	nmachine flame cutting,shield 0, E6011, E6013, E7014, and E			nded Prerequisites: Basic we the department in accordo	
carbon arc	cutting, weld testing, propert	les and Identification	topics cov	ered. Qualify the student in s	
	ietals. It is recommended that y owledge of the safe operatio			ind shop rules.	
cutting and	d welding apparatus. Formerly				
LIAIAdriaie	es: Welding 161.				
					· · · ·

WELDING

WORK EXPERIENCE

GENERAL WORK EXPERIENCE 1-3 UNITS WRK EXP 191

Hours: 5-15 Lab

Student employed on a job that is not directly related to their college major can ear up to three units each semester for two semester, or a maximum of six units. The student must have the approval of the Coordinator of Cooperative Education or his designee and the employer must agree to evaluate the student' s performance. Formerly WRK EXP 122a.

Prerequisite: Must take Leadership Training 1 concurrently.

WRK	GENERAL WORK EXPERIENCE	1-3 UNITS
EXP 192		

Hours: 5-15 Lab

Students employed on a lob that is not directly related to their college major may earn up to three units each semester for two semesters, or a maximum of six units. The student must have the approval of the Coordinator of Cooperative Education or his designee and the employer must provide expanded learning opportunities which add to the student's job skills/knowledge. Formerly WORK EXP 122b.

Recommended Prerequisite: Must take Leadership Training 2 concurrently.

WRK **OCCUPATIONAL COOPERATIVE** 1-4 UNITS EXP 193 **EDUCATION/INTERNSHIP** 5-20 Lab Hours:

This course is conducted to give the student occupational learning opportunities and career awareness. This is accomplished through employment (paid or volunteer) providing learning related to the student's educational or occupational goal. Student must contact the Office of Cooperative Education to register. Formerly WORK EXP 121A.

Recommended Prerequisites: Must take Leadership Training 1 concurrently or perform a designated coordinating activity.

WRK **OCCUPATIONAL EXP 194** 1 Lecture/Discussion Hours: 5-20 Lab per week

EDUCATION/INTERNSHIP

This second semester class, like Work Exp 193, allows students employed on a job directly related to their college major or career goal to earn up to four units. The student must contact the Office of Cooperative Education and the employer must agree to provide new/expanded learning opportunities. Formerly WORK EXP 121B.

1-4 UNITS

Prerequisite: Must take Leadership Training 2 concurrently or perform a designated coordinating activity.

WORK EXPERIENCE

1-4 UNITS

WRK OCCUPATIONAL COOPERATIVE EXP 195 EDUCATION/INTERNSHIP Hours: 5-20 Lab

This third semester offering is designed for student who have opportunities to gain expanded learning beyond that experienced in Occupational Cooperative Education 193 and 194. The learning opportunities must be directly related to their college major or career goal. Students must receive permission of the Office of Cooperative Education.

Recommended Prerequisites: Must complete Occupational Cooperative Education 193 and 194.

WRK OCCUPATIONAL COOPERATIVE 1-4 UNITS EXP 196 **EDUCATION/INTERNSHIP**

Hours: 5-20 Hours

The fourth semester of Occupational Cooperative Work Experience Education is limited to those who are able to establish new/expanded Measurable Learning Objectives beyond those experienced in Occupational Cooperative Work Experience Education 193, 194, and 195 on a Job related to their major or career goal. Students enrolling in this class must have the permission of the Coordinator of Cooperative Education or his designee. Formerly WORK EXP 121D. Recommended Prereaulsite: Must complete Occupational Cooperative Education 193, 194, and 195.

195





Division Chairpersons

Bill M. Downes Divison of Agriculture

Marcy Hall ' Division of Consumer/Family Studies

> Jenny Root Division of Business

> Marlene Taber Division of Fine Arts

ADAMS, DAVID DIRECTOR, CAMPUS FACILITIES & OPERATIONS B.A., M.A., California State College, Fresno

ANDERSON, KENNETH W. POLITICAL SCIENCE/ PSYCHOLOGY

B.A., Duke University; M.A., California State University, San Diego; M.A., California State University, Sonoma

ANDERSON, VERNON A. SOCIOLOGY

A.B., M.A. California State University, Fresno

AUDINO, VIRGINIA SUE CONSUMER FAMILY STUDIES

A.B., California State University, Fresno

BAGVAGANIAN, DENNIS BUSINESS

B.S., M.B.A., California State University, Fresno

BAILEY, JENNIFER ENGLISH

B.A., M.A., CSU Dominguez Hills, California

198

Ken Broyles Division of Industry and Technology

Candace Matzke Division of Language Arts and Communications

Norma Freeborn Division of Nursing and Health Science Tracy Myers Division of Physical Education, Health and Athletics

David Bird Division of Science Mathematics, and Engineering

> Waino Peterson Division of Social Sciences

BARBA, JOSEPH J. ENGLISH B.S., M.S., Purdue University

BARRANGER, JOHN ENGLISH B.A., Dickinson College, Carlisle, PA, M.A.T., University of

Pittsburg, Pittsburg

BARTON, JAMES MATHEMATICS A.B., California State University, Fresno: M.A., University of

Fresno; M.A., University of Washington

BECK, FRANCIS O. ADMINISTRATION OF JUSTICE B.A., M.S., California State University, Fresno

BETTENCOURT, BILL DEAN OF STUDENTS B.A., M.S., California State University, Fresno

BILDEN, JON MUSIC B.A. California State University, Fresno; M.S., University of LaVerne, LaVerne, California BIRD, DAVID CHEMISTRY B.A., M.S., California State

University, Fresno

BIVONA, MICHAEL J. SOCIOLOGY B.A., M.A., California State University, San Jose

BLACK, CHERYL. NURSING B.S., M.S., California State University, Fresno

BLACK, ELLSWORTH NURSING B.S., M.S., California State University, Fresno

BLACK, SHARON COUNSELING

B.S., California State Polytechnic University, San Luis Obispo; M.S., California State University, Fresno

BOCKMAN, DAVID C. DEAN OF INSTRUCTION, APPLIED SCIENCES

B.A., M.A., California State University, Fresno; Ed.D, University of Northern Colorado

BORAGNO, JOHN V. PHYSICAL EDUCATION B.A., M.A., California State University, Fresno

BRANCO, ALLEN A. ATHLETIC COORDINATOR, PHYSICAL EDUCATION B.S., Washington State University; M.S., California Polytechnic State University, San Luis Obispo

BRINGHURST, NEWELL G. HISTORY/POLITICAL SCIENCE B.S., M.S., University of Utah; Ph.D., University of California, Davis

BROYLES, KENNETH AUTOMOTIVE TECHNOLOGY A.A., College of the Sequoias; Community College Vocational Credential

BRUNNER, ILA JUNE NURSING B.S., Bethany Nazarene College, Oklahoma; M.S., University of Nebraska

BURGE, LARRY DIRECTOR, P.O.S.T. BASIC POLICE ACADEMY B.A. Southern Oregon State

CALLAN, LAWRENCE CHEMISTRY B.S., Northern Illinois University, DeKalb; M.S., University of Colorado, Boulder

WATTE', MARY A. ENGLISH/FRENCH

B.A., University of California, Santa Barbara; M.A., California State University, Fresno

CAUGHRON, DEBORAH CONSUMER/FAMILY STUDIES B.A., University of California, Davis

CHILDS, WOODROW ENGLISH

B.S., Dickinson State College, N.D.; M.A., California Polytechnic State University, San Luis Obispo

COLE, JAMES M. PSYCHOLOGY B.A., M.A., California State University, San Jose

COLETTI, RENO, JR. SIGN LANGUAGE B.A., California State University, Fresno

COMBS, LARAINE Y. ENGLISH/MATHEMATICS B.A., California State University, Fresno; M.A. University of California, Los Angeles

CONLEY, RICHARD COOPERATIVE EDUCATION COORDINATOR B.S., M.S., California State University, Chico

CRAIG, GAIL ARCHITECTURE B.A., Stanford University

CRAIN, JOHN GEOLOGY B.S., M.S., University of Nevada CULVER, LOUISE ENGLISH B.A., M.A., University of California, Riverside

DAVIS, BARBARA ENGLISH B.A., Pennsylvania State University, University Park ; M.A., Ph.D., Temple University, Philadelphia

DECKER, IRVING SOCIAL WELFARE B.S., Brigham Young University; M.S.W., University of Utah

DECKER, WILLIAM K. ENGLISH B.A., M.A., University of Northern Colorado

DE SILVA, DAVID AGRICULTURE B.S., M.S., California Polytechnic State University, San Luis Obispo

DOWNES, BILL M. AGRICULTURE B.S., M.A., California Polytechnic State University, San Luis Obispo

DUARTE, RUDOLPH A. ADMINISTRATION OF JUSTICE/ PHYSICAL EDUCATION B.S., M.S., California State University, Long Beach

DUNN, GENE BUILDING TRADES A.A., College of the Sequoias; Vocational Credential; Community College Credential

DUTTO, LAURENCE AGRICULTURE

B.A., M.A., California Polytechnic State University, San Luis Obispo

ERICKSON, DAVID VICE PRESIDENT, ADMINISTRATIVE SERVICES

M.S., St. Cloud, Mn.; B.S., University of Wisconsin, LaCrosse; A.A., Madison Business College, Wisconsin

FALCONER, JEFF

BUSINESS B.S., University of Oregon; M.A., University of Denver

FALLER, PAMELA N. PARALEGAL

A.S., Porterville College; B.A., Chapman College; J.D., Western State University, College of Law

FINNEY, NANCY ASSISTANT LIBRARIAN

B.A., M.A., California State University, San Francisco; M.L.S., California State University, San Jose

FIRSTMAN, ARANGA

BIOLOGICAL SCIENCÉS B.S., M.S., California State Polytechnic University, Pomona; Ed.D., Nova University

FLATTLEY, MERLE

PHYSICAL EDUCATION B.A., California State University, San Jose State University

FRANCISKOVICH, SUSAN ENGLISH

B.A., M.A., California State University, Fresno

FREEBORN, NORMA NURSING

B.S. University of Rochester, Rochester, N.Y.; M.S., California State University, Los Angeles

FRIEDBERG, MARY NORA CONSUMER/FAMILY STUDIES B.S., Oregon State College; M.S., California State University, Fresno

GEHMAN, ROBERT PSYCHOLOGY

B.S., Pennsylvania State University; M.A., Ohio State University

GILCREST, THOMAS S. COUNSELING/PHYSICAL EDUCATION

A.B., California State University, Fresno; M.A., Stanford University

GODDARD, DON MUSIC

B.A., Colorado State College, Greeley; M.A., University of Northern Colorado, Greeley

GOEBEL, DENNIS SPORTS MEDICINE M.A., Azusa Pacific College; B.A., California State University, Fresno; A.A., Santa Barbara City College

GOMAS, RALPH

B.A., M.A., California State University, Fresno

GOODYEAR, DON L. VICE-PRESIDENT, STUDENT SERVICES

B.A., University of Nebraska; M.A., Ed .D., University of Northern Colorado

GORLEY, PAUL D. COUNSELING

A.A., College of the Sequoias; B.A., California State University, Sacramento; M.A., California Polytechnic State University, San Luis Obispo

GRAJEDA, RICHARD L. ASSOCIATE DEAN, EOPS B.A., M.A., California State University, Fresno

GREENING, JOHN S. BIOLOGY B.A., Pomona College; M.A., San Jose State University

GUADIANA, TERESA A. COUNSELING B.A., M.E., University of Arizona, Tucson

HALL, MARCY M.

CONSUMER/FAMILY STUDIES B.A., M.S., California State University, Fresno

HAMILTON, DONNA

CHILD DEVELOPMENT B.S., Fresno State University; A.A., College of the Sequoias

HAMILTON, WILLIAM H. PSYCHOLOGY

B.A., M.A., California State University, San Jose; Ph.D., California School of Professional Psychology

HANSEN, ROBERT BIOLOGY B.A., M.A., California State

University, Fresno

HARNER, RUTH J. BUSINESS

B.S., Illinois State University; M.Ed., University of Illinois

HARRIS, RICHARD

B.S., M.S., California State University, Fresno

HART, TIM PARALEGAL/ADMINSTRATION OF JUSTICE

B.A., San Jose State University; M.A., Washington State University; J.D., San Joaquin College of Law

HAYS, RONALD J. DEAN OF STUDENT FINANCIAL SERVICES

B.S., California State University, Fresno; M.A., California Polytechnic State University, San Luis Obispo

HEATER, MARGARET ANN HEAD LIBRARIAN

B.A., M.A.L.S., West Virginia University

HEATH, ROBERT G. DEAN OF ADMISSIONS AND RECORDS

B.A., M.A., California State University, Sacramento

HESTER-REYES, MICHELE A. SPANISH

B.A., California State University, Fresno; M.A., New York University, Madrid, Spain

HETTICK, LARRIMORE W. ENGLISH

B.A., M.A., California State University, Fresno

HOFER, A. FAYRENE BUSINESS

B.S., M.S., University of San Francisco

HOFER, EUGENE R. PHYSICAL EDUCATION

A. B., California State University, Fresno; M.A., Northern Arizona University

HOMAN, RALPH J. ART

B.A., California State University, San Jose; M.A., California State University Long Beach

HOUK, STEPHEN PHYSICAL SCIENCE/ ENGINEERING/ MATHEMATICS B.S., University of Colorado; M.A., Stanford University: M.S.

Stanford University; M.S., University of California, Davis

HOWELL, DAVID GEOGRAPHY

A.A., Long Beach City College; B.A., California State University, Dominguez Hills; M.A., San Diego State University

HOWLAND, GARY E. MATHEMATICS

B.S., Northwestern State College, Oklahoma; M.S., New Mexico Highlands University

HUDDLESTON, LAUNA BUSINESS

B.A., California State University, Chico; M.A., California State University, San Jose

HURTADO, ALEC AIR CONDITIONING

A.S., College of the Sequoias, Community College Vocational Credential

INOUE, YOSHINOBU MATHEMATICS B.A., M.A., California State University, Fresno

ISBELL, NORMAN A. JR. AGRICULTURE B.S., California Polytechnic State University, San Luis Obispo

JOHNSON, CRAIG

MATHEMATICS B.S., University of Illinois, Urbana; M.S., Ph.D., Purdue University

JOHNSON, NOBLE K. SPEECH/THEATRE ARTS A.B., M.A., California State University, Fresno

JONES, PAUL R. SPEECH/THEATRE ARTS

B.A., M.A., California State University, Sacramento

JUSTUS, LOIS N. NURSING B.S., University of Minnesota

KELLY, ROGER PHYSICAL EDUCATION B.A., Math/Sciences; M.A., Physical Ed, Cal Poly, San Luis Obispo, California

KENNEDY, ROY

BUSINESS B.S., M.S., San Diego State University

KENT, CONSTANCE ENGLISH

B.A., San Jose State University; M.A., Teachers College, Columbia University

KING, SHERIDAN

COUNSELING M.E., University of California, Santa Barbara; B.A., Bennington College, Vermont

KUNCL, GARY DIRECTOR OF POLICE TRAINING AND PUBLIC SAFETY

M.A., B.A., Chapman College: A.A., Golden West College, Hunnington Beach

KNOX, CHRISTINA F. ASSOCIATE DEAN. MATRICULATION

B.A., University of the Pacific: M.S., California State University, Havward

KRUMDICK, VICTOR F. HEALTH/PHYSICAL **EDUCATION** B.S., M.P.E., Purdue University

LAKE, CONNIE

ENGLISH B.A., M.A., Eastern Tennessee State University, Johnson City, Tennessee

LAMBERT, SARAH NURSING

B.S., Loretto Heights College, Loretto, CO; M.S., Catholic University of America. Washington, D.C.

LEWIS, REX O. **BUSINESS**

B.S., University of Nebraska; M.S., University of Southern California

LOYD, RAY **ARCHITECTURE/DRAFTING**

B.A., M.A., California State University, Fresno: Doctor of Environmental Design, Texas v A&M University

LYNCH, TIMOTHY MUSIC

B.A., M.A., California State University, Hayward; Ph.D., University of Iowa, Iowa City

MC CLURE, DARLEAN BUSINESS

B.A., Arizona State University: M.A., California State College, Bakersfield

MADDOX GENE P. ART B.A., M.A., California State

University, San Jose

MANCINI, JAMES COUNSELOR

B.A., M.A., California State University, Fresno

MANGNALL, RICHARD D. **ENGLISH/HISTORY** B.A., San Fernando State College; M.A., California State University, Fresno; M.A., California State University,

Northridge MANNON, KIRBY PHYSICAL EDUCATION B.A., California State University, Fresno; M.A., California

Polytechnic State University, San Luis Obispo

MARTIN, FREDERICK M. **BIOLOGICAL SCIENCES** B.S., M.S., University of Nevada

MAST, DON ASSOCIATE DEAN. **ENABLER PROGRAM** B.S., University of Oregon; M.S., Oregon College of Education

MATZKE, CANDACE K. B. ENGLISH

B.A., Goucher College, Maryland; M.A., Humboldt State University: Ph.D., University of Oregon

MEYER, LYNN

JOURNALISM B.S., M.S., University of Kansas, Lawrence

MIRVISS, MARILYN HAVARD ASSOCIATE DEAN, NURSING Thomas Jefferson University School of Nursing; B.S., M.S.,

California State University, Fresno; Ed.D., Nova University

MORLEY, DENNIS MATHEMATICS

M.A., B.A., California State University, Fresno

MORRISON, MILTON

MATHEMATICS B.A., M.A., California State University, Dominguez Hills

MYERS, TRACY PHYSICAL EDUCATION B.A., California State University,

Fresno; M.A., United States International University

NAUGHTON, GARRETT WELDING

B.S., Northern Arizona University; A.S., Housatonic Community College, Connecticut

NEELEY, DOROTHY BUSINESS

B.S., M.B.A., California State University, Fresno

NORTON, DALE DIRECTOR, PRECOLLEGIATE STUDIES

B.S., Montclair State College-Upper Montclair; M.S., Seton Hall University

NOTTINGHAM, NANCY NURSING

Queen of Angels' School of Nursing; B.S., M.S., California State University, Fresno

OKADA, JACKIE ENGLISH

A.A., College of the Sequoias, B.A. in English/French; M.A., English, University of California, Santa Barbara

PARKER, CHARLES ENGLISH

B.A., M.A., Jackson State University, Mississippi

PARKER, DAVID B.

ADMINISTRATION OF JUSTICE B.S., M.S., Southern Oregon State College; Ed.D., Nova University

PARKER, GEORGELLEN M. COUNSELING

B.A., M.A., California State University, Fresno; Ed.D., University of Southern California

PARLIER, JASPER C.

AUTOMOTIVE TECHNOLOGY Community College Vocational Credential

PELOVSKY, GERALD M. ECONOMICS

B.S., Utah State University; B.S., Mankato State College; M.A., Utah State University

PETERSON, WAINO M. POLITICAL SCIENCE

B.A., M.A., University of Idaho; Ed.D. Nova University

PORTERFIELD-PYATT, CHAMONDE MUSIC

B.A., San Francisco State University; A.A., College of the Sequoias

POWELL, GEORGE BUILDING TRADES B.A., Morningside College; M.A., Louisiana State University

PRESSER, JOHN A. ENGLISH B.A., M.A., California State University, Long Beach

PRESTON, WAYNE BIOLOGICAL SCIENCE B.A., M.A., California State University, Fresno

QUINTO, BONAVITA SPANISH B.A., M.A., University of New Mexico, Albuquerque

REYNOLDS, BARBARA C. CONSUMER/FAMILY STUDIES B.S., Brigham Young University; M.Ed., Idaho State University

RICO, DIANNA COUNSELING

B.S., California State University, Fresno; M.A., California State College, Bakersfield

RIDDLE, THOMAS HISTORY

Occidental College; B.A., Whitworth College; M.A., Ph.D., Washington State University

ROBELLO, LINDA DANCE

B.A., California State University, Long Beach

ROOT, JENNY BUSINESS

B.A., California State University, Fresno; M.A., California State University, Bakersfield

ROSE, DON MATHEMATICS

B.S., M.S., California State University, Hayward

RUEGER, ROSS

MATHEMATICS B.S., University of California, Riverside; M.A.T., University of California, Los Angeles

RUIZ, RON

HISTORY B.A., California State University, Fresno; M.A., California State University, San Diego

RYAN-STARMER, BEATRICE BUSINESS B.S., California State University,

Fresno; M.A., University of San Francisco

SADEH, SHIRIN

PHYSICS,MATH B.S., State University of New York, Binghamton; M.S., Syracuse University, New York

SARTAIN, H. ROBERT ENGINEERING/PHYSICS B.S., Oregon State University; M.A., California State University, Sacramento

SCHAEFFER, JOHN T. MATHEMATICS

B.S., Sonoma State University; M.S., California State University, Hayward

SCHNEIDER, NANCY NURSING

B.S., University of Colorado; M.A., Education, Boston University Overseas

SEASTROM, GREG ENGLISH

A.B., California State University, Fresno

SELLERS, JAMES BIOLOGY

B.A., M.A., California State University, Fresno, Ed.D., University of Southern California

SHARPLES, DIANNE DEAN OF INSTRUCTION, EXTENDED DAY/LIBERAL ARTS

B.S., University of California, San Francisco Medical Center; M.S., California State University, Fresno; Ed.D., Nova University

SHELLEY, DANIEL CHEMISTRY

B.A., M.A., California State University, Fresno, Bakersfield

SHIRK, RICHARD E. BUILDING TRADES

B.A., M.A., California State University, Fresno

SHUMAN, MICHAEL

COUNSELING B.A., M.S., California State University, Fresno

SILVA, DIANE

LEARNING DISABLED B.A., College of St. Benedict, Minnesota; M.A., California State University, Fresno

SMITH, ELAINE CHEMISTRY B.A., M.A., California State University, Fresno

STAVA, SHERRY NURSING B.S., California State University, Fresno

STILES, AUDIE E. ELECTRONICS TECHNOLOGY A.A., College of the Sequoias, Vocational Credential

STOFFELS, SHARON NURSING B.S., California State University, Long Beach

STRAW, MARIE CHEMISTRY

B.A., San Francisco College for Women; M.S., St. Louis University

STRONG, BARBARA ART B.A., M.A., University of

California, Santa Barbara

TABER, MARLENE SPEECH

A.A., Los Angeles Valley College, B.A., Education, California State University, Northridge; M.A., Speech, California State University, Fresno

TATE, LA DONNA NURSING B.S. Murray State Unive

B.S., Murray State University; M.S., Medical College of Georgia

TRIMBLE, DORTHEA BIOLOGY B.S., M.A., University of

California, Davis; Ph.D., University of Iowa, Iowa City

USELTON, KENNETH PHYSICAL EDUCATION B.A., M.A., University of Pacific

VIEIRA, DONALD J. AGRICULTURE B.S., California State University, Fresno

WICKMAN, GAYLE NURSING

St. Mary's School of Nursing; B.S., Chapman College; M.A., Fresno Pacific College

WILCOXSON, TERRY HEALTH SERVICES

A.A., Nursing, College of the Sequoias, B.S., Nursing, California State University, Fresno

WINTERTON, JOHN A. ELECTRONICS

A.S., College of the Sequoias, B.S., California State University, Fresno

WOODALL, JANET R. NURSING B.S., Marycrest College

WREN, HOWARD COUNSELOR

B.A., University of California, Davis; A.A., Sacramento City College

YAMAKAWA, LINDA ASSISTANT LIBRARAIN B.A., M.A., California State

University, San Jose

EMERITUS FACULTY

ANTHONY, BETTY Home Economics, 1974-1989

BERG, LEROY Vice-President, Evening College, 1962-1984

BUYUKLIAN, HARRY Fine Arts, 1977-1989

COTTRELL, DICK Architecture, 1960-1990

CROOKSHANKS, IVAN Superintendent/President, 1949-1984

DEETZ, LINCOLN Architecture/Voc. Drafting, 1956-1984

EBERSPACHER, BOB English, 1968-1990

ENSIGN,PAT Nursing, 1975-1983 and 1987-1991

ESSEX, WILFRID Chemistry, 1955-1984

FISCHER, CURT History/Anthropology, 1955-1984

FLAHERTY, MICHAEL Vice-President/Administrative Services; Administration/Business, 1966-1990

FLY, JOHN Building Trades, 1961-1984

FRANSCIONI, DON Business, 1966-1990 GRUMBLING, BETTY English, 1970-1988

GRUMBLING, HANK Photography, 1962-1988

GUARISCO, JOSEPH A. Dean of Vocation Education, 1948-1977

HALL, ROBERT English, 1963-1991

HALL, LINCOLN H. Superintendent/President, Vice President, Instruction, 1957-1981 and 1984-1991

HAMILTON, DICK English/Journalism, 1963-1990

HOLT, BERT Physical Education, 1965-1988

HOWARD, KENYON Physical Science, 1972-1984

JACOBSON, RICHARD Vice-President, Business, 1957-1984

JENSEN, BRUCE Agriculture, 1949-1984

KLEINFELTER, DALE, Chemistry, 1963-1990

MC CORMICK, ANNE Home Economics, 1966-1984

MARCELLUS, BOB Fine Arts, 1967-1990

MARTIN, NOEL History, 1959-1984 MORSE, GEORGE English, 1965-1984

OTTO, JOHN Counselor, 1953-1983

PAPPAS, GEORGE Speech/Drama,1955-1984

PIETROFORTE, AL Speech/Art, 1957-1984

ROBINS, FRED Mathematics, 1953-1984

ROUTEN, WILLIAM Agriculture, 1953-1984

SCOFIELD, JIM Geography/Meteorology, 1967-1988

SHEWEY, JEAN Physical Education, 19599-1984

SINDLIINGER, AL Metals Technology, 1961-1990

SWEENEY, ALBERT English, 1963-1984 SWISHER, JAMES Mathematics, 1959-1984

TAYLOR, ROY Physical Education, 1950-1984

THEIGE, JACK Information Services, 1960-1989

TOMASEVICH, ROBERT Agriculture, 1971-1984

WALKER, LEWIS Librarian, 1965-1984

WEAVER, ARLENE Nursing, 1979-1988

205







Index-

A

AA/AS Degree Guidelines 48
Academic Dismissal
Procedures23
Academic Forgiveness23
Academic Probation22
Academic Probation
Removal22
Academics21
Access to Students' Official
Records
Accounting
Accounting, Certificate67
Adaptive PE
Administration, College7
Administration of Justice 113
Admission, Provisional 14
Admission, Requirements 14
Admissions
Admissions, Eligibility 14
Advanced Placement
Ag Management,
Certificate68
Ag Mechanics, Certificate69
Certificate
Agricultural Science,
Certificate
Agriculture116
Agriculture Management 117
Agriculture Mechanics 117
Air Conditioning-See ECT 150
American Institutions
Requirements
Animal Science
Animal Science and
Industry, Certificate71
Anthropology 120
Architecture121
Architecture and Architectural
Drafting, Certificate72
Art
Associated Students, The 41
Astronomy 124
Attendance
Audio Visual43
Auditing Credit Classes28
Automotive Mechanics 124
Automotive Mechanics 124 Automotive Technology,
Certificate73
Certificate

В

Biology12	27
Board of Trustees	
Bookstore4	2
Building Trades, Construction	
Option, Certificate74	4
Building Trades,	
Mill Cabinet Option7	5
Building Trades1	28
Bus Transportation42	2
Business1	31

С

,
Calendar, Fall 19914
Calendar, Spring 19925
CAN
63
Career Center41
Catalog Rights49
Certificate Programs65
Chemistry 134
Child Care42
Child Development,
Certificate
Child Development, Special
Education Option77
Child Development135
Children's Learning Center 8
Cinema Arts 137
Class Cancellations25
Class Waiting Lists
Classification of Students 15
Clearing High School Subjects
with College Courses
Clubs and Organizations 42
Code of Student Conduct 34
College Level Examination
Program
Color Image, Certificate 78
Community Service
Option28
Competency Certification47
Compliance Statement6
Computer
Computers, Certificate79
Consumer/Family Studies,
Certificate80
Consumer/Family
Studies140

•
Cooperative Education 195
Cooperative Education
Program
Cosmetology
Counseling Services
Course Descriptions
Course Repetition Policy25
Credit by Examination26
Credit/No Credit29
CSU, Eligibility for
Transfer
CSU, Fresno at COS9
CSU, Initial Application Filing
Period

D

Dairy Science, Certificate8	1
Dairy Science14	41
Dance1	79
Department of Public	
Safety	1
Division Chairpersons 19	98
Drafting14	42
Drafting Technology,	
Certificate82	2
Drop Fee	8
Dropping a Class23	8
	5

E

Eating	35
Economics	
Есононисв	1
Electronics	144
Electronics Technology,	
Certificate	83
Emergency Medical	
Technology	145
Emeritus Faculty	205
Enabler Skills	146
Engineering	
English	147
Environmental Control	
Technology, Certificate	84

Index

E

F

Certificate85

Fashion Merchandising, Certificate86 Fee Assistance17 Fees19 Fees and Expenses17

Fashion Design,

Fire Technician,

Floral Technology,

Foods-See Nutrition/

G

Goals, College11 Grading Procedures22 Graduation, Requirements .46 Graduation and Transfer45

H

Handicapped Students'
Services
Hanford Center8
Health Fees17
History, College12
History158
Honors Program
Horse Production,
Certificate91
Horticulture Technology,
Certificate
Human Development159
Human Service (Social Work),
Certificate93
Human Services160
Humanities159
HVAC, Certificate84
Hygiene 182

I

	1. S. 1.
In Progress (IP)	29
Incomplete Grades	
Independent Study	162
Independent Study	27
Independent Study	
Application	27
Index	207
Industry and Technology .	160
Information Services/	•
Wordprocessing,	
Certificate	94
Insurance	162
Intercollegiate Athletics	183
Interdisciplinary	
Studies	162
Interior Design,	
Certificate	95

Interior Design	163
Internship	195
Intersegmental GE Tran	sfer
Curriculum	
Italian	163

J

Journalism163

L

Landscape Technology,	
Certificate	96
Law Enforcement,	
Certificate	97
Leadership Training	164
Leaves of Absence	27
Library	39
Liquor and Drugs	

M

Maintenance Technician-Level
1, Certificate98
Maintenance Technician-Level
2, Certificate99
Map, COS Farm9
Map, Main Campus10
Marketing, Certificate 100
Material Fees17
Mathematics 164
Maximum Unit Limit22
Messages35
Meteorology167
Military Service Credit24
Misconduct
Mission, College11
Modeling, Certificate101

Index-

M

Multiple	Degrees	•••••	48
Music		•••••	167

\mathbf{N}

Non Resident Tuition	
Fees17	,
Numbering System11	2
Nursery Technology,	
Certificate10	2
Nursing17	1
Nutrition Aide,	
Certificate10	3
Nutrition/Foods17	3

0

Objectives, College 11
Off-Campus Sites8
Ornamental Horticulture 174

\mathbf{P}

n 1 . 1
Paralegal 176
Parking, Campus39
Parking Fees17
PE, General Activities 179
Peace Corp Credit24
Pets
Philosophy 178
Photography178
Physical Education179
Physical Science185
Physics
Placement Tests14
Plant Science
Plant Science and Industry,
Certificate104
Policy, Certificate
Programs66
Political Science
Posting of Materials35
Prerequisites22

Private Independent	
Colleges63	
Probation and Dismissal22	
Progress Dismissal	
Procedures	
Progress Probation23	
Progress Probation	
Removal	
Psychology188	3
Public Administration 186	
P.C. 832, Certificate106	
P.O.S.T. Basic Police Academy,	
Certificate105	

R

Real Estate, Certificate	. 107
Real Estate	. 188
Recreation	. 185
Refrigeration-See ECT	. 150
Refund Policy	. 17
Registration	.15
Report Delayed	.24
Resident Regulations	
Re-entry Services	.41

S

Scholarship Program
Scholastic Honors18
Scholastic Regulations 18
Secretarial, Certificate 108
Security Guard Training,
Certificate109
Services for the Deaf and
Hearing Impaired40
Sign Language Studies 189
Smoking
Social Science190
Social Services/Housing 43
Sociology
Spanish
Special Topics191
Speech
Sports Medicine 185

Student Activities42
Student Association Fee 17
Student Bill of Rights32
Student Financial Aid
Programs38
Student Grievance
Procedure
Student Health Center40
Student Insurance
Coverage43
Student Progress
Student Progress
Student Record Privacy
Rights Student Services 37
Student Services Center42
Students Rights/
Responsibilities31
Supervised Practice

Т

Table of Contents	3
Theater Arts	192
Transcripts	16
Transfer, California State	
University	50
Transfer Deficiencies	
Transfer Planning	49
Tutorial Center	

U

UC, Eligibility for
Transfer
UC Priority Application Filing
Period
UC Transfer Course List60
Unit Limitation 22

Index

V

W

Notes -

Notes -

Notes ·

Notes -

Notes

Notes

Notes -

.